

Department of Biomedical Sciences

Student Handbook

College of Health Sciences
Qatar University

Academic Year 2020-2021

Women's Campus, Science Building C01
Room SE 126
P.O. Box 2713
Doha, Qatar



Dear Students,

Welcome! *On behalf of the faculty of the Biomedical Science Department, I am pleased to welcome you to an exciting and dynamic profession. It is critically important for you to realize that health care providers and employers require graduates who are not only technically competent but also excellent communicators, critical thinkers, and problem solvers.*

Upon successful completion of this program, you will have gained the minimum knowledge, skills, and abilities to function as a competent medical technologist at job entry level. We, the faculty, desire to assist you in becoming a successful medical technologist by enhancing your critical thinking and communication skills. We also want you to be proud of your accomplishments, abilities, and potential and we want to be able to say that we are pleased to have you as a colleague. Our reward is your success.

Dr. Marwan Abu-Madi
Department Biomedical Science, Head

Best of luck!

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Introduction

This Handbook is prepared to provide you a quick reference to certain department information and policies. You should keep it in an accessible place. Revisions and/or additions will be distributed separately. The statements in this handbook are for information purposes only and should not be construed as the basis of a contract between a student and this Department. While the provisions of this document will generally be applied as stated, the QU Biomedical Science Department reserves the right to change any provision. Also, it is the student's responsibility to be cognizant of QU policies and procedures in the QU Catalog and Student Handbook.

Accreditation

The Biomedical Science Program is accredited by the US National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) for the period from April 2020 to April 2030. It is the first academic program outside of the US to receive accreditation by NAACLS.

National Accrediting Agency for Clinical Laboratory Sciences

5600 N. River Rd.
Suite 720
Rosemont, IL 60018-5119
773.714.8880
773.714.8886 (FAX)
www.naacls.org

Certification

In the medical laboratory sciences, achieving certification includes 3 steps: basic education (e.g. bachelor's degree), professional practicum and successful completion of a national certification examination. In order to be eligible for the examination at the Medical Laboratory Scientist level, you must possess a bachelor's degree and complete a professional practicum accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). The program is NAACLS accredited and graduates are eligible for national certification. The most common is the Board of Certification of the American Society of Clinical Pathology (ASCP). Graduates are eligible for the Medical Laboratory Scientist (MLS) certification. Issuing of the BS degree or the post BS certificate is not contingent upon the students passing any type of external certification or licensure examination.

Students should plan to take the exam as soon as they complete the program. At some point during your final term you will begin the process of application for your certification examination. This may be completed online. In order to apply for the ASCP examination, you must complete your course of study at the university, pass all of the courses, and complete the Clinical Practice Rotations. Once your application has been accepted, you will be able to arrange a date and time to sit the examination at the approved center in Doha.

Mission Statement

The mission of the Biomedical Science major at Qatar University is to provide quality education that prepares future competent Biomedical Scientists with theoretical knowledge, practical, critical thinking and communication skills, with emphasis on ethics for the healthcare industry. Our graduates are committed to life-long learning and adapt to the changing needs of society.

Goals

The goals of the Biomedical Sciences major are to help students to:

1. Acquire knowledge related to the field of biomedical science.
2. Gain practical skills related to the laboratory field.
3. Develop communication skills.
4. Enhance critical thinking skills.
5. Employ modern information technology related to the health field.
6. Sustain high professional ethics and behavior.
7. Conduct research related to biomedical science.
8. Maintain an interest in lifelong learning and career development.

Student Learning Outcomes

1. Demonstrate conceptual knowledge in biomedical field.
2. Perform basic laboratory techniques in biomedical labs.
3. Comply with safety regulations and universal precaution.
4. Communicate effectively with colleagues and clients.
5. Solve problems related to test results discrepancy.
6. Integrate patient data for evaluation of validity of laboratory test results.
7. Apply computer technology in clinical laboratory data processing, data reporting and information retrieval.
8. Maintain strong professional ethics.
9. Conduct research related to Biomedical Sciences.

Statement of Professionalism

Serving as a professional medical technologist is more than pipetting solutions, looking through a microscope at white blood cells or urinary sediment, or performing a venipuncture on a patient. These are all technical and academic aspects of being a professional. The true professional adheres to given rules of conduct and subscribes to a Code of Ethics.

As in any profession, your conduct and manner will be evaluated subjectively and objectively by the people with whom you come in contact. The attributes of a professional include neatness, cleanliness, punctuality, dependability, dedication, meticulousness and cooperation. These

attributes will help you obtain professional status. To remain a professional, one must constantly evaluate oneself, seek to improve one's skills and stay abreast of the developments in the Medical Laboratory Science field.

The professional is ethical in his/her ethical dealing with the client. He/she recognizes and is willing to admit when something is done incorrectly and subsequently sees that it is done correctly. You have a moral obligation to serve the patient with accuracy, thoughtfulness and care.

Essential Functions

Essential Functions are the non-academic standards that a student must be able to master to participate successfully in the BMS program and become employable. Examples of this program's essential functions are provided below. If you are not sure that you will be able to meet these essential functions, please consult with the Department's head for further information.

Essential Visual and Observation Skills for Medical Laboratory Science

The Medical Laboratory Science student must be able to:

- Observe laboratory demonstrations in which biological (i.e., body fluids, culture materials, tissue sections) and cellular specimens are tested for their biochemical, hematological, immunological, microbiological, and histochemical components.
- Characterize the color, odor, clarity, and viscosity of biological samples, reagents, or reaction products.
- Utilize a clinical grade binocular microscope to discriminate between the fine structural and color (hue, shading, and intensity) differences of microscopic specimens.
- Read and comprehend text, numbers, and graphs displayed in print and on video monitor.
- Recognize alarms

Essential Motor and Mobility Requirements for Medical Laboratory Science

The Medical Laboratory Science student must be able to:

- Perform laboratory-testing adhering to existing laboratory safety standards.
- Perform moderately taxing continuous physical work, often requiring prolonged sitting and/or standing, over several hours.
- Travel to assigned clinical laboratory Practicum sites.
- Reach laboratory bench tops and shelves, patients lying in hospital beds or patients seated in specimen collection furniture.
- Grasp, hold, transport, utilize specimens, reagents, hazardous chemicals and equipment in a safe manner as needed to perform laboratory testing.
- Obtain patient specimens in a timely, safe, and professional manner (e.g. perform phlebotomy).
- Use laboratory equipment (e.g. pipettes, inoculating loops, test tubes) and instruments to perform laboratory procedures according to established laboratory guidelines.
- Use computer keyboard to operate laboratory instruments and to calculate, record, evaluate, and transmit laboratory information.

- Troubleshoot and correct basic equipment malfunctions.

Essential Communication Requirements for Medical Laboratory Science

The Medical Laboratory Science student must be able to:

- Read and understand technical and professional materials, (i.e. textbooks, journal articles, handbooks and instruction manuals).
- Follow oral and written instructions independently.
- Clearly instruct patients regarding specimen collection.
- Demonstrate sensitivity, confidentiality and respect when speaking with patients.
- Communicate clearly, accurately and tactfully with faculty members, student colleagues, staff and other health care professionals orally and in a recorded format (writing, typing, graphics, or telecommunications).

Essential Intellectual Requirements for Medical Laboratory Science

The Medical Laboratory Science student must be able to:

- Comprehend measure, calculate, reason, integrate, analyze, evaluate, correlate, problem-solve and compare.
- Recognize abnormal laboratory results (e.g. patient and QC) and take appropriate action.
- Demonstrate critical-thinking and judgment skills appropriate to a given situation.
- Independently prepare papers, prepare laboratory reports, and take paper, computer and laboratory practical examinations.

Essential Behavioral Requirements for Medical Laboratory Science

The Medical Laboratory Science student must be able to:

- Organize work and perform multiple tasks within given time constraints and under stressful conditions while maintaining the ability to communicate clearly.
- Be able to manage the use of time and be able to systematize actions in order to complete tasks within realistic constraints.
- Possess the emotional health necessary to effectively apply knowledge and exercise appropriate judgment.
- Be able to provide professional and technical services while experiencing the stresses of task-related uncertainty (i.e. ambiguous test order, ambivalent test interpretation), emergent demands (i.e. “stat” test order) and distracting environment (i.e., high noise levels, crowding).
- Be flexible and creative and adapt to professional and technical change.
- Recognize potentially hazardous materials, equipment, and situations and proceed safely in order to minimize risk of injury to patients, self and nearby individuals.
- Adapt to working with unpleasant biologicals
- Support and promote the activities of fellow students and of health care professionals. Promotion of peers helps furnish a team approach to learning, task completion, problem solving, and patient care.
- Be honest, compassionate, ethical, and responsible. The student must be forthright about errors or uncertainty. The student must be able to critically evaluate her or his own performance,

accept and act on constructive criticism, and look for ways to improve (i.e. participate in enriched educational activities).

- Show respect for individuals of different age, ethnicity, and religion, exercise independent judgment and accept responsibility for own work.

In addition, the student must follow all established policies and procedures of the program and clinical affiliate sites.

Faculty

College of Health Sciences, Dean

Dr. Hanan Abdul Rahim

Ph.D., University of Oslo, Norway
M.Sc., Illinois State University, IL, USA
B.Sc., Salem College, NC, USA

Associate Dean for Academic Affairs

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Ph.D., Ohio University, USA
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B.Sc., Alexandria University, Egypt

Department of Biomedical Sciences, Head

Dr. Marawan Abu Madi, MLS(ASCP)^{cm} Associate Professor

Ph.D., University of London, UK
M.Phil. University of London, UK
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Faculty

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M.Sc., Mansoura University, Egypt
Diploma, Mansoura University, Egypt
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Dr. Houssein Khodjet-el-khil,, Associate Professor

Ph.D., Tunisia/Pasteur Institute of
Paris. France.

M.Sc, Faculty of Sciences of Tunis.

Tunisia.

B.Sc, Faculty of Sciences of Tunis. Tunisia.

Dr. Hatem Zayed, Associate Professor

Ph.D., Free University of Berlin, Germany

M.Sc., Free University of Brussels, Belgium

B.Sc., Cairo University, Egypt

Dr. Maha Al-Asmakh, Assistant Professor

Ph.D., Karolinska Institutet, Stockholm, Sweden

M.Sc, Imperial College London, U.K.

B.Sc, Qatar University

Dr. Mashael Al-Shafai, Assistant professor

Ph.D., Imperial College London, United Kingdom

B.Sc., University of Leeds, United Kingdom

Dr. Elham Sharif, Assistant Professor

Ph.D., University of West England, UK

M.Sc., University of the West of England, UK

B.Sc., Qatar University

Dr. Layla Y. Kamareddine, Assistant Professor

Ph.D., American University of Beirut, Beirut, Lebanon

M.Sc., American University of Beirut, Beirut, Lebanon

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Dr. Atiyeh Abdallah, Assistant Professor

Ph.D., Imperial College London, UK.

MSc University of Westminster, UK.

Dr. Wisam Nabeel Ibrahim, Assistant Professor

Ph.D., IIUM, Malaysia.

M.Med.Sc., IIUM, Malaysia.

M.B.Ch.B., Basra University, Iraq.

Dr. Amal Al-haidose, Assistant Professor

Ph.D., University of Salford Manchester

M.Sc., University of Hull, UK

B.Sc., Qatar University.

Teaching Assistants

Dr. Hala Bargal

M.Sc., Tanta University, Egypt

M.B., B.Ch. o (M.D.) Tanta University, Egypt

Dr. Sawsan Said

Ph.D., Istanbul Technical University, Istanbul, Turkey.

M.Sc. Birzeit University, Palestine.

B.Sc., Al-Quds University, Palestine.

Ms. Maria Socorro S. Mayol, RN

B.Sc., Colegio de San Agustin de Bacolod, Philippines

Ms. Amna Al-Thani

B.Sc., Qatar University, Qatar

Ms. Sumbul Bushra, MLS(ASCP)cm

M.Sc., Qatar University, Qatar

B.Sc., Qatar University, Qatar

Mr. Tameem Hadwan

M.Sc., Jordan University of Sciences and Technology, Jordan

B.Sc., Sanaa University, Yemen

Ms. Tagreed Abunada

M.Sc., Qatar University, Qatar

B.Sc., Qatar University, Qatar

Ms. Rasha Abu-El-Ruz, CSMLS, OSMT

MSc., University of London, UK

Post-Graduate High Diploma, York University, Canada

Major Co-Up, University of Toronto, Canada

BSc., Balqa Applied University, Jordan

Ms. Hissa Al-Thani, MLS(ASCP)cm

B.Sc., Qatar University, Qatar

Laboratory Technologists

Ms. Aisha Mohammed Alsheeb

B.Sc., Qatar University, Qatar

Ms. Amal Ibrahim

B.Sc. Qatar University, Qatar

Ms. Ovelia Masoud

B.Sc. Qatar University, Qatar

Dr. Abdelrahman ElGamal, DVM

BSc. Kafrelsheikh university, Egypt

Post-Graduate High Diplomas (2), kafrelsheikh University, Egypt

Administrative Coordinator

Ms. Shahd Khalifa Alrumaihi
B.Sc., Qatar University, Qatar

Clinical Affiliates

The Biomedical Sciences Program is affiliated with Hamad Medical Corporation and Sidra Medicine. Thus, students will be required to attend several lectures and student laboratory courses in addition to the clinical practice courses at either Sidra Medicine or Hamad Medical Corporation (HMC) facility. These courses are taught by HMC and Sidra Medicine clinical preceptors who are experienced laboratory staff members.

Due to the limited number of clinical sites and laboratory personnel in Qatar, it will be necessary to assign students to clinical sites outside of Doha. Every effort is made to facilitate a mutual arrangement between students and various clinical sites.

Full-time enrolled students have top priority assignment to the practicums at the clinical sites. Full-time students who become enrolled in the program on a part-time basis will be assigned to rotations in the current and following year(s) after the full-time students are assigned, if additional space is available. Thus, assignment to rotations cannot be guaranteed in a timely manner if one is enrolled on a part-time basis and such action may delay completion of the program and graduation.

As per clinical sites regulation, students are required to attend different workshops: CP orientation, Infection Prevention Measures at clinical sitting, Fire Safety, Waste Management at clinical facilities, and Basic Life Support workshops.

The clinical internship courses are PASS and FAIL course and its evaluation criteria consists of three aspects: on-hand tasks performance, Comprehensive knowledge exam (minimum passing score 70%), and affective behavior. Failure to achieve satisfactory performance in any of these three aspects would result in "INCOMPLETE" grade.

Prospective Students

Admission to the Biomedical Science Major

- Completion of the Qatar University foundation program requirements
- Minimum secondary school grade of 70% for the final year
- Completion of 16 credit hours in general Science that including MEDI 101 with a minimum grade of C and a minimum GPA of 2.00.

Procedure

Students will be accepted twice a year for each fall and spring semester based upon the above criteria. The faculty will evaluate each applicant according to the above criteria to review the applicants and determine who should be accepted. Once accepted, students will be given a study plan that must be adhered to.

Advisement

All Biomedical Science students are assigned a program academic advisor. It is expected that students make appointments with the assigned advisor during the advisement period of each semester. Other Faculty members are also available during office hours for consultation and assistance. Students are encouraged to schedule appointments when necessary. Each student is responsible to ascertain that she has complied with all applicable catalog requirements for graduation. Consult Study Plan on the program's website.

Current Students

Academic Policies and Regulations

While every effort is made by Qatar University to provide timely and accurate information to students about their academic standing, it is the sole responsibility of students to be aware of their academic standing at all times.

Undergraduate students are placed under academic probation based on their cumulative GPA and the total number of GPA hours as detailed below:

- 0 - 24 GPAH - No academic probation is to be applied
- 25 GPAH or above - Placed under academic probation if cumulative GPA is below 2.00

Academic Probation is noted on the student transcript and academic records.

Once placed on academic probation, students have two (2) consecutive semesters (summer session not included) to remove the academic probation before being dismissed from the University.

Once placed under Probation at the end of a semester, undergraduate students who fail to satisfy the 2.00 cumulative GPA requirement for "Good Standing" at the end of the following semester of enrollment, excluding the summer term, are placed under **Final Probation**.

Once placed under Final probation at the end of a semester, undergraduate students who fail to satisfy the 2.00 cumulative GPA requirement for "Good Standing" at the end of the following semester of enrollment, excluding the summer term, are academically dismissed from the University.

Student grievances and appeal process procedures are followed by the department as per QU regulation stated in the Students Undergraduate catalog 2018-2019.

(<http://www.qu.edu.qa/students/catalogs>)

Attendance

Class participation and attendance are important elements of every student and the student is expected to attend all classes. A student should not miss more than 25% of the classes during a semester. Those exceeding this limit will receive a failing grade regardless of their performance. In exceptional cases, the student, with the instructor's prior permission, could be exempted from attending a class provided that the number of such occasions does not exceed the limit allowed by the University. The instructor will determine the validity of an excuse for being absent. A student who misses more than 25% of classes and has a valid excuse for being absent will be allowed to withdraw from the course. This student will be exempted from fines associated with withdrawal.

Clinical/ Campus lab

The clinical/campus lab experience assignments in each course have been determined to be the kind and amount necessary to meet course objectives. Therefore, students are expected to attend every scheduled clinical/lab. The student should notify the clinical facility prior to the beginning of clinical if he/she will be absent. Time missed during the clinical experience will be made up at the discretion of clinical course faculty. The QU absence policy applies to clinical/campus lab as well as scheduled course class time.

Exams and Grading

In program courses, students are not allowed to keep exams or tests. Exams/tests may be reviewed by appointment with the professor after they are reviewed in class. Other evaluation and exam policies are explained in individual course syllabus. It is also the responsibility of the student to bring to the attention of the respective course professor any grading errors within 48 hours after the receipt of the graded assignment or test. Grades will not be changed due to error after this 48-hour time period.

Practicum Rotation

As a part of this program, students are required to complete during their last semester 5 clinical practice courses which are scheduled for 15 weeks. Thus, the clinical practice begins before the QU semester first day of class and ends after the last day of class. Students will be provided with the Biomedical Science Clinical Practice Manual which includes all of the policies and procedures for clinical practice.

Physical Exam

All students are required to have a physical exam performed by a medical doctor at QU Medical Clinic prior to enrollment in the program. **The physical exam is considered good for one year.** Failure to maintain a current physical exam is grounds for suspension or dismissal from the program. Use the Annual Physical form provided in the back of the Student Handbook.

In order to meet the essential functions for the program and practice in the profession, students accepted into the program should consider also having a complete eye examination to include color discrimination.

HBV Vaccination

Hepatitis B infection is a significant and growing risk in the world. Health care workers are especially at risk for developing this disease due to exposure to needle-sticks and splashed blood or body fluids. Hepatitis B, which infects thousands of health care workers and kills approximately 200 persons each year, is preventable by immunization. Therefore, biomedical science students are encouraged to be immunized against Hepatitis B and must sign the Hepatitis B Declaration Form.

Students must complete a full course of immunization against the Hepatitis B virus. The immunization process can take up to nine months and applicants are therefore advised to commence

this process at the earliest possible opportunity. Students must also demonstrate an acceptable antibody titer to HBV and obtain a repeat vaccination series if the titer is negative.

Please understand that due to the program of study, you may be exposed to blood and body fluids or other potentially infectious materials, and, therefore, may be at risk to acquire an infection by the Hepatitis B virus. Each student must have in her file one of the declarations on the attached Hepatitis B Declaration Form (*provided in this Student Handbook*).

QU Student Handbook

All students are expected to read and comprehend the QU Student Handbook prior to beginning classes.

Effective Objectives and Evaluation

All students will be evaluated regarding professional/ethical behavior and organizational skills while enrolled in the Biomedical Science Program. The objectives and evaluation instrument are shown below. The first failure to meet an affective domain objective will result in the student receiving a **verbal warning** from the instructor and an evaluation of "*Needs Improvement*" will be given for that objective. The second failure will result in a **written warning** and an evaluation of "*Needs Improvement*" will be given for that objective. All subsequent failures to meet the same objective will result in a **written warning** and an evaluation of "*unsatisfactory*". The faculty reserves the right to immediately evaluate as "unsatisfactory" any failure to meet an affective domain objective that is viewed as flagrant or dangerous.

For on-campus classes, students will be evaluated in each course. In Clinical Practice, the Affective Domain will count for 20% of the final course grade for each practicum course.

The Student will demonstrate attainment of the following professional affective behavioral skills according to the qualifying descriptions:

Honesty

- Demonstrates honesty and integrity
- Accepts responsibility for own actions
- Adheres to confidentiality

Personal Interactive Skills

- Effectively communicates and cooperates with peers
- Establishes or strives toward effective rapport with peers
- Handles stress well
- Takes advantage of technological communication tools (i.e. email, web ct)
- Effectively and accurately submits legible handwritten documents
- Effectively communicates orally with instructors

Organization

- Accepts responsibility for cleaning up
- Demonstrates carefulness
- Strives towards better organization and efficiency

Professional Demeanor

- Adheres to safety precautions
- Strives to have a pleasant manner (attitude)
- Demonstrates interest in learning
- Demonstrates perseverance
- Demonstrates promptness and dependable attendance
- Demonstrates appropriate professional attire
- Practices good personal hygiene habits

Professional Responsibility

- Demonstrates awareness of need for accuracy and precision
- Is willing to do more than his/her share
- Accepts instructor criticism in constructive manner

Coronavirus (COVID-19) pandemic:

The students will be having their classes online in the first two weeks of the academic year (Fall 2020). On the first week of the labs the students will be having a safety class and due to the pandemic, they will also be thought about the infection prevention measures. The students will return to the campus on September 1st on phase four as per the governmental regulation. Students are required to install Ehteraz app to access the campus and show their green-code of safe health status to the security when requested. Students are expected to adhere strictly to the infection prevention measures, follow the safety regulations and be responsible.

Qatar University
Biomedical Science Program
Affective Behavior Evaluation

Student Name: _____

Date: _____

	Consistently Exceeds Expectations	Consistently Meets Expectations	Does not meet Expectations	Fails to Meet Expectations
Honesty				
Demonstrates honesty and integrity				
Accepts responsibility for own actions				
Adheres to confidentiality				
Personal Interactive Skills				
Effectively communicates and cooperates with peers				
Establishes or strives toward effective rapport with peers				
Handles stress well				
Takes advantage of technological communication tools (i.e. email, Blackboard, etc.)				
Effectively and accurately submits legible handwritten documents				
Effectively communicates orally with instructors				
Organization				
Accepts responsibility for cleaning up				
Demonstrates carefulness				
Strives towards better organization and efficiency				
Professional Demeanor				
Adheres to safety precautions				
Strives to have a pleasant manner (attitude)				
Demonstrates interest in learning				
Demonstrates perseverance				
Demonstrates promptness and dependable attendance				
Demonstrates appropriate professional attire				
Practices good personal hygiene habits				
Professional Accountability				
Demonstrates awareness of need for accuracy and precision				
Is willing to do more than her share				
Accepts instructor criticism in constructive manner				
Record comments supporting "Unsatisfactory":				

Course Description

BIOM 212 Human Histology (3 CH) (2hr Lecture + 3hr Lab)

Human Histology course covers basic human histology and histo techniques including different types of microscope, the cell, epithelial tissue, connective tissue proper, cartilage, bone, muscular tissue, blood, vascular system, lymphatic system, lymphatic tissue, digestive system, respiratory system, urinary system, female genital system, male genital system, central nervous system, special sense organ and endocrine system. Prerequisite: None.

BIOM 213 Human Embryology (3 CH) (2hr Lecture + 3hr Lab)

Gametogenesis, ovulation, fertilization, implantation, bilaminar germ disc, trilaminar germ disc, embryonic period, fetal period, fetal membranes, placenta and congenital malformations. Assisted reproductive techniques, development of urogenital, cardiovascular and gastrointestinal systems. Prerequisite: BIOM 211 (ELECTIVE).

BIOM 217 Human Genetics (3 CH) (2hr Lecture + 3hr Lab)

Principles of medical genetics and their application in pathology. Chromosome structure and function. Mendelian pattern of inheritance. Mitochondrial diseases and multifactorial inheritance and its role in human variation and human diseases. Cytogenetic disorders. Gene mapping and molecular structure of the gene. Hemoglobinopathies. Biochemical genetics. Immunogenetics. Cancer genetics. Genetic counseling. Tissue culture techniques. Chromosome preparation from different tissue. Prerequisite: MEDI 101 & MEDI 103.

BIOM 243 Introduction to Pathology (2 CH) (2hr Lecture)

The principles and mechanism of pathological processes. Cell injury, reversible and persistent cell injury reactions (atrophy, hypertrophy, dysphasia, etc). Necrosis and apoptosis. Acute, chronic and granulomatous inflammations. Systemic manifestations of inflammation. The extracellular matrix and cell interaction. Wound healing repair. Immune-mediated diseases. Immune deficiencies and autoimmunity. Neoplasia classification into benign and malignant tumor markers. Invasion and metastasis. Cell cycle kinetics. Oncogenes, viruses and human cancer. Chemical carcinogenesis. Physical carcinogenesis. Prerequisite: None.

BIOM 301 Laboratory Management, Safety and Quality Control (3 CH) (3hr Lecture)

This course is designed as a team taught course to introduce students with clinical laboratory regulations, including quality control, laboratory safety, basic safe use of equipment, and quality assurance. Basic knowledge of motivation, commitment, and human needs; management theory; organizational forms and cultures; power in organizations. Communication skills, education methods and training; decision making; groups and teams. Total quality management, laboratory accreditation and audit; efficiency and effectiveness. Health, safety and welfare of the workforce; work safety legislation, hazards of the work place, risk assessment, safety policies, safety audits and inspection. Prerequisite: None.

BIOM 320 Medical Molecular Biology (3 CH) (2hr Lecture + 3hr Lab)

The molecular biology course focuses on providing a molecular understanding of living systems with emphasis on eukaryotes. The course will explain the structure/function relationships of proteins and nucleic acids. It will cover a wide range of molecular mechanisms including DNA replication, repair, transcription, translation, gene expression regulation, post-transcriptional modifications, protein processing, cell surface interaction, cell cycle regulation, and apoptosis with emphasis on the translational aspects of molecular biology in health and disease pertaining to humans. Prerequisite: BIOM 217.

BIOM 322 Medical Microbiology (4 CH) (3hr Lecture + 3hr Lab)

Relationships between the hosts and pathogens epidemiological aspects and mode of transmission of microbial diseases. Zoonotic diseases. Microbial pathogenicity and mechanism of virulence. The role of pathogenic bacteria and viruses in causing disease laboratory diagnosis, methods of prevention and treatment. Prerequisite: BIOL 241.

BIOM 323 Medical Parasitology (2 CH) (1hr Lecture + 3hr Lab)

Medical parasitology. Biomedical sciences and tropical medicine. Nomenclature and taxonomy of animal parasites. Position of parasitism amongst other biological associations. General structure and ultra-structure. Classification, biology, life cycle, epidemiology, pathogenicity and diagnosis of selected medically important examples of the following groups: Protozoa, platy- helminthes, acanthocephalan and zoonosis. Control of parasitic diseases. Prerequisite: BIOL 241.

BIOM 324 Medical Virology (3 CH) (2hr Lecture + 3hr Lab)

Basic concepts on viruses, structure and classification of human viruses and the disease they cause. The methods of collection and diagnosis of viral diseases. Prerequisite: BIOM 243

BIOM 346 Clinical Chemistry (4 CH) (3hr Lecture + 3hr Lab)

Biochemical tests in clinical medicine. Water, sodium and potassium. Hydrogen ion homeostasis and blood gases. The kidneys and renal disorder. The liver and liver function tests. The gastrointestinal tract disorders of intestinal function. Disorder of carbohydrate metabolism. Diabetes mellitus, calcium, phosphate, magnesium and bone. Plasma proteins. Lipid and lipoproteins. Clinical enzymology. Inherited metabolic disease. Practical's include collection and processing of blood specimen, calculation of result, quality control and reporting systems. Diagnostic tests for liver disease (LFT). Diagnostic tests for renal diseases (KFT). Diagnostic tests for diabetes mellitus. Prerequisite: CHEM 351.

BIOM 402 Special Topics (Introduction to Medical Laboratory Technology) (2 CH) (2hr Lecture)

This course serves as a basic introduction to the clinical laboratory focusing on topics in laboratory safety, microscopy, phlebotomy, general laboratory equipment, quality assurance, laboratory mathematics, and principles and methodologies of clinical laboratory instrumentation. Prerequisite: None

BIOM 411 Forensic Science (2 CH) (2hr Lecture)

The course includes the legal importance of forensic medicine and its contribution to justice. It includes penology and criminology as a science, as well as all the aspects related to death and the cadaver. Traumatology, including criminal injuries, different types of wounds, traffic accidents, burns, and the concept of the forensic medicine prognosis. In addition, asphyxiology receives a broad and in depth attention so that the students may distinguish the juridical causes of death. Sexology and legal obstetrics are highlighted due to their frequency in the practice of forensic medicine. Prerequisite: BIOM 211. (ELECTIVE)

BIOM 418 Pharmacology and Toxicology (2 CH) (2hr Lecture)

Drugs and chemical used in therapy responsible for house hold and industrial poisoning as well as environmental pollution, their effects on human in therapeutic & potentially toxic aspects of drugs administration. The action of different classes of toxicants such as solvents, pesticide and heavy metal. Prerequisite: MEDI 101 & MEDI 103.

BIOM 422 Diagnostic Microbiology (2 CH) (1hr Lecture + 3hr Lab)

Various methods for the diagnosis of pathogenic bacteria isolated from different clinical specimens with emphasis on normal flora of the human body. Collection and handling of different pathological specimens. The antimicrobial sensitivity test. Prerequisite: BIOM 322.

BIOM 426 Clinical Immunology (3 CH) (2hr Lecture + 3hr Lab)

Molecular diversity and control of immune system and its association with disease states. Modern application of antibodies and cytokines in diagnosis and treatment of disease. The immune system and its relation to infection, transplantation and immunopathology with special emphasis on immunological techniques. Prerequisite: BIOM 243.

BIOM 444 Histopathology (2 CH) (1hr Lecture + 3hr Lab)

Introduction to general pathology. Pathological lesions and diseases in various tissues and organs. The theoretical and practical aspects of techniques used in a histopathology laboratory. Fixation, processing, blocking decalcification of

routine and special staining methods. Cardiovascular, respiratory, gastrointestinal, hepato-biliary, urinary male and female reproductive endocrine, lymphoreticular, musculoskeletal and central nervous system. Prerequisite: BIOM 212.

BIOM 446 Urine Analysis and Body Fluids (2 CH) (1hr Lecture + 3hr Lab)

Basic renal physiology, macroscopic and microscopic analysis of urine, renal pathology, and disease correlations. Prerequisite: MEDI 101 & MEDI 103.

BIOM 451 Hematology and Hemostasis (4 CH) (2 Lectures + 6hr Lab)

Formation and maturation. Blood cells differential and their functions. General principles and iron metabolism. Types of anemia. Methods of microscopic analysis. Haemoglobinopathies and methods of detection. Hemorrhage, blood groups and blood transfusion. Leukemia and its classification. Clotting mechanisms and disorders. Detection of coagulation disorders. Prerequisite: BIOM 243.

BIOM 452 Immunohematology and Blood Banking (3 CH) (1hr Lecture + 6hr Lab)

Principles of blood transfusion and blood banking. Tests carried out on donors and recipients. Diseases that result from blood transfusion and their methods of detection. Methods for preparing plasma, concentrated RBC's, concentrated platelets and blood clotting factors. Blood substitutes. Study the role of immune reactions in blood transfusions. Prerequisite: BIOM 451.

BIOM 463 Endocrinology (3 CH) (3hr Lecture)

Introduction to hormones and chemical signals. Receptors. Basic principle of endocrine physiology. Synthesis, secretion and mode of action of various hormones. Hormonal control of metabolism. Hypothalamic and pituitary hormones. Thyroid glands and its hormones. Adrenal glands and calcium homeostasis. Hormonal assays. Hormonal control of reproduction in males and females. Prerequisite: MEDI 101 & MEDI 103.

BIOM 491 Clinical Practice in Chemistry (3 CH)

Supervised clinical practice in the clinical chemistry laboratory with experience in procedures and methods of evaluating and monitoring the presence and progression of disease, operation of instrumentation, following quality assurance practices, and using appropriate safety measures. Prerequisites: BIOM 346.

BIOM 492 Clinical Practice in Hematology (3 CH)

Supervised clinical practice in the clinical hematology laboratory with experience in procedures and methods of evaluating and monitoring the presence and progression of disease, operation of instrumentation, following quality assurance practices, and using appropriate safety measures. Prerequisites: BIOM 451.

BIOM 493 Clinical Practice in Immunology (3 CH)

Supervised clinical practice in the clinical immunology laboratory with experience in procedures and methods of evaluating and monitoring the presence and progression of disease, operation of instrumentation, following quality assurance practices, and using appropriate safety measures. Prerequisites: BIOM 426.

BIOM 494 Clinical Practice in Microbiology (3 CH)

Supervised clinical practice in the clinical microbiology laboratory with experience in procedures and methods of evaluating and monitoring the presence and progression of disease, operation of instrumentation, following quality assurance practices, and using appropriate safety measures. Prerequisites: BIOM 422.

BIOM 495 Clinical Practice in Immunohematology (3 CH)

Supervised clinical practice in the clinical immunohematology laboratory with experience in procedures and methods of evaluating and monitoring the presence and progression of disease, operation of instrumentation, following quality assurance practices, and using appropriate safety measures. Prerequisites: BIOM 452.

BIOM 496 Professional Development (3 CH) (3hr Lecture)

Study of the national, regional, and local professional associations related to biomedical sciences; professional certifications and licensure requirements; mechanisms and requirements for continuing education; broad knowledge of the topics emphasized in certification examinations. Prerequisites: Department Approval.

BIOM 497 Research Project (3 CH)

The student is directed to develop research project on a practical and/or theoretical subject in the field of Biomedical Sciences using scientific methods under the supervision of staff member. Prerequisite: Department Approval.

Educational Agreement (Between Qatar University Biomedical Sciences Program Faculty and Students)

The purpose of this agreement is to define what the Biomedical Sciences faculty and staff and students can reasonably expect from one another to enhance learning and research productivity and to ensure high quality educational outcomes. Expectations are divided into 4 areas: Teaching and Learning, Curriculum, Professional Conduct, and Quality of Institutional Life.

Teaching and Learning

The Latin origin of the term “university” refers to a legally granted association of students and scholars. They have one thing in common: they exist to promote teaching and learning. Learning is not confined to the classroom, laboratory, and library. Learning is primarily, but not exclusively, a student activity.

Proposition: Students may expect their professors and teaching assistants to:

- be knowledgeable about the subject under study and/or direct students to sources of information
- use effective teaching approaches such as holding students to high standards of performance, explaining desired outcomes, and applying fairly and clearly articulated evaluation practices
- prepare for and attend classes and structured learning activities as indicated in the course syllabus
- adhere to classroom management and attendance policies and procedures as established by QU
- be available for consultation on a periodic basis outside of the classroom time
- challenge them to develop problem-solving and critical thinking skills

Proposition: Faculty may expect students to:

- prepare for, and attend, classes and structured learning activities as indicated
- participate fully in classroom activities
- invest the time and effort demanded by course requirements
- complete assignments on time
- realize and accept that problem-solving and critical thinking development is necessary for their complete academic and professional experience and future

Curriculum

The Biomedical Sciences curriculum framework is an outcome-based or standards-based design. In other words, the framework is defined with clear, specific high standards which will be achieved by all students. The curriculum is aligned to the standards, and students will be assessed against the standards.

Proposition: Students may expect the Biomedical Sciences Program to:

- offer a curriculum that provides a coherent systematically organized intellectual and practical experience
- offer a curriculum which provides exposure to all the major subject areas commonly offered in the modern clinical laboratory

- present learning experiences to develop entry level knowledge and skills based on the ASCP guidelines

Proposition: The faculty may expect students to:

- be willing to research answers to questions on their own
- seek advice from faculty and staff who are knowledgeable about specific content areas
- accept and seek to obtain the written student learning outcomes
- utilize course syllabi, course objectives, course textbook(s), references and other provided materials for their own learning

Professional Conduct

All scholars and students in a university should demonstrate professional ethics and behaviors toward each other and to the practice of biomedical science by showing mutual respect, being honest in all actions, and promoting trust in their communications.

Proposition: Students may expect the Medical Technology Department faculty and staff to:

- serve as a role model for ethical and moral behavior
- communicate clearly and fairly apply rules, policies, and practices
- provide programs, services, and facilities as described in program publications

Proposition: The faculty may expect the students to:

- distinguish between actions that are consistent with and those which violate the principles of professional ethics
- behave in a manner consistent with the principles of integrity and ethics
- behave in a civil, supportive manner toward peers and teachers

Quality of Institutional Life

Learning is as much a social activity as a solitary endeavor. It best occurs in settings where learners are respected as individuals, feel comfortable, assume responsibility for their learning, and have opportunities to develop their knowledge and skills in a positive climate. This does not mean that the learning process is without stress and pressures necessary for the obtainment of these expected competencies.

Proposition: Students may expect the faculty and staff to:

- have and support diversity within the student body, faculty, and staff consistent with the program's context and educational purpose
- treat them with civility, respect, fairness, and compassion
- guarantee and model free expression through logical and rational conversation
- provide a safe learning environment free from harassment

Proposition: The faculty may expect students to:

- treat each other and faculty and staff with civility, respect, and compassion
- exercise guaranteed freedoms in a responsible manner consistent with the aims and traditions of the academy
- acknowledge the interdependence of the Program and the clinical affiliates (e.g. hospitals)
- take responsibility for their learning
- contribute to the quality of life in the program

Qatar University
Department of Biomedical Sciences
Advising Consent Form

Program Orientation

Department of Biomedical Sciences conducts biannual orientations for the newly admitted students every fall and spring; through which the students get a full chance to understand all aspects regarding their degree including; the study plans, clinical practice regulations, degree completion requirements, cohorts specifications, etc. Students will also receive their lab coats that they will be using throughout all the lab sessions of their degree.

- All the newly admitted students are expected to attend the semester-based orientation sessions scheduled at the BMS department
- It is the student's responsibility to follow-up and seek the necessary information in case they are absent during the orientation
- The students shall agree and accept with department's advising and scheduling protocols

Study plans

Students will be classified to cohorts according to their Fall/Spring study plans, the semester of admission, core completion, and degree progress. The students are entitled to full advising services to support their progress throughout the years. Although the BMS Department extend its support for the students, but the students must abide with essential terms and conditions:

- Agree to follow their study plans
- Pursue academic consultation before they attempt to switch courses or change their plans
- Discuss with their advisors the consequences of dropping or withdrawing from the course
- Held responsible for taking actions that affect their plans without an obtained departmental consent
- Understand that the priority for courses eligibility will remain for those who stick with their plans
- The department is not to accommodate the schedule for those who are off-their plans
- The department is not held responsible for exams conflicts for those who are off-their plans

I have read and understood the department's regulations regarding the scope of admission, orientation, study plans and degree completion requirements as located in the Biomedical Science Student Handbook

Signature

Date



Study plan for students joining the Biomedical Science program in Fall (Revised August 2020)

Fall 1st Semester						Spring 2nd Semester					
Code	Course	T	P	Cr	Prereq.	Code	Course	T	P	Cr	Prereq.
	English 202 (Core requirement)	3	0	3			English 203 (Core requirement)	3	0	3	
MEDI 102	Health Professions Education	2	0	3		MEDI 103	Human Structures and Function II	2	3	3	MEDI 101
CHEM 101	General Chemistry I	3	0	3		BIOM 212	Human Histology	2	3	3	
CHEM 103	Exp. General Chemistry I	0	3	1	CHEM 101	CHEM 209	Fundamentals of Organic Chemistry	2	3	3	CHEM 101&103
PUBH 151	Biostatistics for Health Sciences	3	0	3			Core courses			6	
MEDI 101	Human Structures and Function I	2	3	3							
	Total			16			Total			18	
Fall 3rd Semester						Spring 4th Semester					
Code	Course	T	P	Cr	Prereq.	Code	Course	T	P	Cr	Prereq.
	Core courses			9			Core courses			9	
BIOM 217	Human Genetics	2	3	3	MEDI 101 & 103	BIOM 320	Medical Molecular Biology	2	3	3	BIOM 217
CMPS 101	Introduction to Computer	3	2	3		CHEM 351	Basic Biochemistry	3	0	3	CHEM 209
BIOL 241	Microbiology	2	3	3	BIOL101 override	CHEM 352	Experimental Biochemistry	0	3	1	CHEM 351
						BIOM 243	Introduction to Pathology	2	0	2	
	Total			18			Total			18	
Fall 5th Semester						Spring 6th Semester					
Code	Course	T	P	Cr	Prereq.	Code	Course	T	P	Cr	Prereq.
BIOM 324	Medical Virology	2	3	3	BIOM 243	BIOM 418	Pharmacology & Toxicology	2	0	2	MEDI101&103
BIOM 346	Clinical Chemistry	3	3	4	CHEM 351	BIOM 446	Urine Analysis & Body Fluids	1	3	2	MEDI 101&103
BIOM 426	Clinical Immunology	2	3	3	BIOM 243	BIOM 322	Medical Microbiology	3	3	4	BIOL 241
BIOM 402	Special Topics	2	0	2		BIOM 451	Hematology & Hemostasis	2	6	4	BIOM 243
BIOM 463	Endocrinology	3	0	3	MEDI101&103	BIOM 323	Medical Parasitology	1	3	2	BIOL 241
	Core courses	0	0	3							
	Total			18			Total			14	
Fall 7th Semester						Spring 8th Semester					
Code	Course	T	P	Cr	Prereq.	Code	Course	T	P	Cr	Prereq.
BIOM 301	Laboratory management	3	0	3		BIOM 491	CP in Chemistry	0	9	3	BIOM 346
BIOM 444	Histopathology	1	3	2	BIOM 212	BIOM 492	CP in Hematology	0	9	3	BIOM 451
BIOM 422	Diagnostic Microbiology	1	3	2	BIOM 322	BIOM 493	CP in Immunology	0	9	3	BIOM 426
BIOM 452	Immunohem. & Blood Bank	2	3	3	BIOM 451	BIOM 494	CP in Microbiology	0	9	3	BIOM 422
BIOM 497	Research Project	3	0	3	Dept. App.	BIOM 495	CP in Immunohematology	0	9	3	BIOM 452
BIOM 411	Major Elective (Forensic Science)	2	0	2		BIOM 496	Professional Development	3	0	3	Dept. App.
	Total			15			Total			18	

Study plan for students joining the Biomedical Science program in Spring						(Revised August 2020)					
Spring 1st Semester						Fall 2nd Semester					
Code	Course	T	P	Cr	Prereq.	Code	Course	T	P	Cr	Prereq.
	English 202 (Core requirement)	3	0	3			English 203 (Core requirement)	3	0	3	
MEDI 102	Health Professions Education	2	0	3		MEDI 103	Human Structures and Function II	2	3	3	MEDI 101
CHEM 101	General Chemistry I	3	0	3		BIOM 212	Human Histology	2	3	3	
CHEM 103	Exp. General Chemistry I	0	3	1	CHEM 101	CHEM 209	Fundamentals of Organic Chemistry	2	3	3	CHEM 101 & 103
PUBH 151	Biostatistics for Health Sciences	3	0	3			Core courses			6	
MEDI 101	Human Structures and Function I	2	3	3			Total			18	
	Total			16							
Spring 3rd Semester						Fall 4th Semester					
Code	Course	T	P	Cr	Prereq.	Code	Course	T	P	Cr	Prereq.
	Core courses			9			Core courses			9	
BIOM 217	Human Genetics	2	3	3	MEDI 101 & 103	BIOL 241	Microbiology	2	3	3	BIOL101 override
CHEM 351	Basic Biochemistry	3	0	3	CHEM 211	CMPS 101	Introduction to Computer	3	2	3	
CHEM 352	Experimental Biochemistry	0	3	1	CHEM 351	BIOM402	Special Topics	2	0	2	
BIOM 243	Introduction to Pathology	2	0	2			Total			17	
	Total			18							
Spring 5th Semester						Fall 6th Semester					
Code	Course	T	P	Cr	Prereq.	Code	Course	T	P	Cr	Prereq.
BIOM 320	Medical Molecular Biology	2	3	3	BIOM 217	BIOM 324	Medical Virology	2	3	3	BIOM 243
BIOM 322	Medical Microbiology	3	3	4	BIOL 241	BIOM 346	Clinical Chemistry	3	3	4	CHEM 351
BIOM 451	Hematology & Hemostasis	2	6	4	BIOM 243	BIOM 426	Clinical Immunology	2	3	3	BIOM 243
BIOM 323	Medical Parasitology	1	3	2	BIOL 241	BIOM 422	Diagnostic Microbiology	1	3	2	
	Core Courses			3		BIOM 463	Endocrinology	3	0	3	MEDI101&103
	Total			16		BIOM 452	Immunohem. & Blood Bank	2	3	3	BIOM 451
							Total			18	
Spring 7th Semester						Fall 8th Semester					
Code	Course	T	P	Cr	Prereq.	Code	Course	T	P	Cr	Prereq.
BIOM 301	Laboratory management	3	0	3		BIOM 491	CP in Chemistry	0	9	3	BIOM 346
BIOM 444	Histopathology	1	3	2	BIOM 212	BIOM 492	CP in Hematology	0	9	3	BIOM 451
BIOM 497	Research Project	3	0	3	Dept. App.	BIOM 493	CP in Immunology	0	9	3	BIOM 426
BIOM 418	Pharmacology & Toxicology	2	0	2	MEDI101&103	BIOM 494	CP in Microbiology	0	9	3	BIOM 422
BIOM 446	Urine Analysis & Body Fluids	1	3	2	MEDI 101&103	BIOM 495	CP in Immunohematology	0	9	3	BIOM 452
BIOM 213	Major Elective (Human Embryology)	2	0	3		BIOM 496	Professional Development	3	0	3	Dept App.
	Total			15			Total			18	

Qatar University
Department of Biomedical Sciences

Student Consent Form

Informed Consent for Blood Collection

For effective phlebotomy (blood collection) training it is necessary for students to voluntarily serve as patients. In other words, enrollment in this program also includes informed consent for another student to collect blood samples via venipuncture and/or finger stick technique. The instructional program includes carefully planned instructional communication to minimize the risks (e.g., hematoma, fainting) associated with blood collection. Thus, your participation in this program includes your informed consent to have blood collected via venipuncture and/or finger stick technique and that you will not hold the University, the Program, or any clinical site affiliate responsible for associated complications.

Printed Name QU ID#

Signature

Date

Certification Statements

I do hereby acknowledge that I have received a copy of the current Biomedical Science Program Student Handbook and that I have read and understood the content therein. I agree to abide by the stipulations set forth in the QU and Biomedical Sciences Student Handbook while I am a student in the program.

Signature

Date

I have also read and understood the Essential Requirements.

Signature

Date

I have also read and understood the policies for progression as located in the QU student Handbook and completion of the Biomedical Science Program.

Signature

Date



I have also been provided an opportunity to question the Biomedical Science Program Director, Clinical Education Coordinator, or QU Faculty about content which I do not understand and I realize that failure to return this form prevents me from entering the program as a Biomedical Major.

Signature

Date

I understand and accept that I may have to complete a clinical internship outside Doha in order to complete practicum courses. I am also aware that any Clinical Facility for which I am accepted to complete the Clinical Practice Courses will require a signed contract and that I will be required to submit as per their policies and procedures. This will include, but not be limited to, attending the Clinical Facility's New Staff Orientation, CP orientation, infection prevention control workshop, as well I do agree to submit my Personal information (e.g. Passport copy, Residents Permit number, copies of Student ID and National ID).. In addition, I know that the Clinical Practice is 15 weeks long. I do understand that the department encourage me to be certified as MLS through the BOC ASCP US Exam.

Signature

Date

I have read and understood the QU Student Handbook and the Student Integrity Code and pledge to abide by it.

Signature

Date

I have read and understood the Educational Agreement and pledge to abide by it.

Signature

Date



Annual Physical Exam

Name:	QU ID:
<u>Date of Physical</u>	<u>Name of Examiner (Please Print)</u>
I have examined _____ and find that she has:	
1. no evident health problems which could interfere with her performance of required clinical activities.	
2. * the following health problem(s)/restriction(s) which may/may not interfere with her performance of required clinical activities. <i>(*Please explain #2 or #3 if checked and attach additional pages if necessary.)</i>	
3. * significant health problem(s) which would interfere with her performance of required clinical activities.	
Pregnancy Test:	Positive Negative N/A
<i>(For married females only)</i>	
Signature of Health Care Provider	

Return to: Department of Biomedical Sciences
College of Health Sciences
Qatar University
P.O. Box 2713, Doha
State of Qatar

Hepatitis B Declaration Form

Name (Please Print):	QU ID:
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Read each option and choose ONE to sign and date.

1. I understand that Hepatitis B is a severe and potentially life threatening illness. Hepatitis B vaccination significantly decreases my risk of being infected by the Hepatitis B virus. Therefore, **I agree to take the prescribed series of inoculations and follow-up titer to assess antibody level, and a second series if necessary.** I assume responsibility for all arrangements, costs, and complications arising from this vaccination procedure. **(Please submit documentation of shot administration and/or proof of antibody titer after completion.)**

Signature	Date
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2. I understand that Hepatitis B is a severe and potentially life threatening illness. Hepatitis B vaccination significantly decreases my risk of being infected by the Hepatitis B virus. I understand also that not taking the vaccination may significantly increase my risk of being infected by the Hepatitis B virus. Nevertheless, **I elect NOT to take the prescribed vaccination procedure,** and assume responsibility for all arrangements, costs, and complications arising from not taking those vaccinations.

Signature	Date
-----------	------

3. **I have already received the vaccine (Please attach documentation of shots received and/or antibody titer)**

Signature	Date
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*Return to: Department of Biomedical Sciences
College of Health Sciences
Qatar University
P.O. Box 2713, Doha
State of Qatar*



Instructions to resume to QU Health research labs

Full Name:

QU College:

QU Student ID Number:

Qatari ID Number:

Email address:

Supervisors' Name:

I, the undersigned, have understood the instructions and information provided to me regarding the basic biosafety level 2 (BSL2) practices and emergency response plans as per Qatar University (QU) standards and policies. I have been trained on how to respond in case of fire and medical emergencies, how to use the emergency shower and eye washer, and on hazardous waste management.

I confirm that I will enter the lab on my own full responsibility and that Qatar University, including its faculty and staff, are not in any way responsible for any injury or illness that may occur to me as a result of my presence inside the facility. Finally, **I will fully comply with all the required Safety Precautionary Measures (in relation to COVID-19), as have been announced by QU and the MoPH and explicated in page 2.**

Signature: _____

Date:

