

Doctor of Philosophy in Biomedical Sciences College of Medicine & Health Sciences

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Doctor of Philosophy in Biomedical Sciences

College of Medicine & Health Sciences

Overview

The Doctor of Philosophy (PhD) program in Biomedical Sciences is designed to provide student with sufficient knowledge, research skills and competency in a wide variety of areas that will prepare him/her for a career in Biomedical Sciences research, academia and leadership. The program embraces both course work as well as original research work completion. The combination of unique courses will cover several Biomedical Sciences topics, bio-statistics, and research methodology. This 54-credit hours PhD program is typically finished in four to six years. The program will intend to contribute to the advancement of the UAE knowledge-based economy through community engagement and knowledge transfer. The program will enhance scientific innovation through research and establish the UAEU as a leader in Biomedical Sciences research within the country and region.

Program Objectives

- Develop scholarly inquiry grounded in research and the reality of practice in the discipline area.
- Offer a rigorous and innovative discipline-based knowledge that prepares students to succeed in a globally challenging, competitive and changing environment.
- Enhance professional growth, lifelong learning skills and leadership competencies in the area of specialization for career opportunities in different sectors.
- Adhere to professional integrity and research ethics, and be committed to values related to the area of specialization.
- Prepare graduates to be inquisitive, to reason critically, and to communicate clearly and effectively.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate depth and breadth of the translational biomedical knowledge used in their scholarly activities.
- Demonstrate effective communication skills, with peers and colleagues, that are effective in the exchange and translation of knowledge and scientific findings.
- Synthesize new translational biomedical sciences knowledge by engaging in collaborative research, and in scholarships and through oral, written and publication platforms.
- Demonstrate professionalism and ethical attitudes in data management, ownership and sharing.
- Evaluate the significance of translational biomedical research.

Degree Requirements

Required Credit Hours : minimum 54 hours

General Requirements

Required Courses (9 hours)		Credit Hours
CMHS731	Research Proposal Development	1
CMHS702	Journal Club I	2
CMHS703	Journal Club II	2
CMHS704	Journal Club III	2
CMHS705	Journal Club IV	2

Program Requirements

Required Courses (9 hours)		Credit Hours
BMSC700	Recent Advances in Molecular Biology	3
BMSC701	Advanced Research Techniques	3
BMSC707	Medical Cell and Tissue Biology	3

Elective Courses

Students should take 2 courses from the following list. (Or can also enroll (as an elective) in any relevant courses from the pool of all the UAEU 700-level courses (matching QFEmirates level 10) after consultation and approval from their supervisors and PhD program coordinator) (6 hours)		Credit Hours
BMSC702	Advances in General Pathology	3
BMSC703	Microbial Pathogenesis and Host Defense	3
BMSC704	Current Advances in Pharmacological Sciences	3
BMSC705	Advances in Genetics	3
BMSC706	Advanced Cancer Biology	3
BMSC708	Advanced Topics in Neuroscience	3
BMSC709	Advanced Pathophysiology	3
BMSC710	Computational Biochemistry and Artificial Intelligence for Medical Applications	3
BMSC711	Advanced Human Microbiome	3

Qualification Requirements

Required Courses (0 hours)		Credit Hours
CMCE800	Comprehensive Examination	0

Research Requirements

Required Courses (30 hours)		Credit Hours
RSCH900	Dissertation Research	30
RSCH910	Dissertation Defense	0

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