

**Campus Where the Program Is Offered:** CST

#### OBJECTIVES

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The PhD in Life Science trains highly qualified, independent researchers in the biological sciences. Candidates will develop advanced expertise in their field, including molecular biology, genomics, ecology, and related disciplines, while acquiring the skills to design and conduct original research. The program also develops scientific communication and interdisciplinary research skills, preparing candidates to address complex challenges across biological disciplines and contribute to advances in contemporary biological research.

#### PROGRAM LEARNING OUTCOMES (COMPETENCIES)

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1. Master the theoretical frameworks, conceptual foundations, and current trends in the field of study to position the work at the forefront of current knowledge.
2. Produce original scientific contributions, validated by peers, that significantly advance the field of research.
3. Apply advanced research methodologies including analytic, qualitative, quantitative, or mixed techniques to process data.
4. Communicate concepts and results effectively and critically to diverse audiences while employing appropriate teaching strategies to support learning.
5. Demonstrate scientific integrity by adhering to professional standards, including consideration of the social, cultural, and ethical impacts of research.

#### ADMISSION REQUIREMENTS

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To be admitted to the PhD program, candidates must hold a Bachelor's degree and a Master's degree from a university recognized by Saint Joseph University of Beirut, or equivalent qualifications. The preparation of a dissertation is part of the continuity of the research activities of the Faculty of Science and its research units.

#### PROGRAM REQUIREMENTS

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##### **Required Courses (180 Cr.)**

Dissertation Preparation, Semester 1 (30 Cr.); Dissertation Preparation, Semester 2 (30 Cr.); Dissertation Preparation, Semester 3 (30 Cr.); Dissertation Preparation, Semester 4 (30 Cr.); Dissertation Preparation, Semester 5 (30 Cr.); Dissertation Preparation, Semester 6 (30 Cr.).

The PhD culminates in the writing and defense of a dissertation. To be eligible for the defense, PhD candidates must have completed at least six academic semesters of doctoral enrollment, published two peer-reviewed scientific articles, and participated in recognized international conferences. The PhD typically takes three to four years to complete.