

Faculty of
Life Sciences

Biology

RPC-SO-21-No.436-2020

espol®



Bachelor of Science in Biology



Applicant Profile

The Biology program is designed for students interested in understanding biological systems and their relationship with the environment. Applicants are expected to demonstrate critical thinking, analytical and logical reasoning skills, as well as a reflective and ethical approach to the study of living organisms. They should also be motivated to generate scientific knowledge and apply biological principles to the analysis of ecological challenges and the development of sustainable solutions that contribute to the conservation of biodiversity.



Employability

ESPOL biologists possess the qualifications sought by public and private sector organizations, as well as non-governmental institutions associated with biotechnology, molecular biology, conservation, industrial and productive sectors, and research and development initiatives that promote sustainability. Additional career opportunities for ESPOL Biology alumni can be found in the private sector, including environmental consulting agencies, biotechnology laboratories, and productive industries.



Professional Skills

Biology alumni possess the skills, knowledge, and competencies required to address biological challenges and issues in both natural and controlled environments through sustainable and impactful solutions.

Throughout their studies, students actively participate in faculty-led research projects through research assistantships, pre-professional internships, and other academic projects.



In fact...

ESPOL offers unique opportunities for fieldwork, as 40% of its campus is part of the Prosperina Protected Forest and Vegetation Reserve, encompassing 265 hectares dedicated to the conservation of the region's biodiversity.

In addition, 85% of the faculty hold doctoral degrees in fields related to the courses they teach.



LEARN MORE



Curriculum

N 100 - I	SINGLE VARIABLE CALCULUS	GENERAL PHYSICS	PROBLEM SOLVING	GENERAL CHEMISTRY	ARTS, SPORTS AND LANGUAGES ELECTIVE COURSES		ENGLISH I
N 100 - II	CALCULUS OF SEVERAL VARIABLES	PROGRAMMING FUNDAMENTALS	ORGANIC CHEMISTRY	GENERAL BIOLOGY	GENERAL BOTANY		ENGLISH II
N 200 - I	STATISTICS	COMMUNICATION	BIOCHEMISTRY	CELLULAR AND MOLECULAR BIOLOGY	INVERTEBRATE ZOOLOGY	SYSTEMATIC BOTANY	ENGLISH III
N 200 - II	LIFE SCIENCE RESEARCH	SUSTAINABILITY SCIENCE	GENERAL ECOLOGY	GENERAL MICROBIOLOGY	ENTOMOLOGY	VERTEBRATE ZOOLOGY	ENGLISH IV
N 300 - I	ENTREPRENEURSHIP AND INNOVATION	BIOSTATISTICS	ECOSYSTEM ECOLOGY	GENETICS	EMBRYOLOGY	PLANT PHYSIOLOGY	ENGLISH V
N 300 - II	ENVIRONMENTAL POLLUTION	BIOINFORMATICS	AQUATIC ECOLOGY	EVOLUTION	VIROLOGY		COMMUNITY SERVICE INTERNSHIPS
N 400 - I		INTRODUCTION TO OMICS TOOLS	ECOTOXICOLOGY PRINCIPLES	BIOGEOGRAPHY	IMMUNOLOGY	ANIMAL PHYSIOLOGY	SELECTED ELECTIVE COURSE
N 400 - II			ENVIRONMENTAL REMEDIATION	HUMANITIES ELECTIVE COURSES		BIOLOGY CAPSTONE COURSE	SELECTED ELECTIVE COURSE
							PRE-PROFESSIONAL BUSINESS INTERNSHIPS



Accredited Program



International Accredited Degree



Did you know?

The Biology program is built upon three main areas of study: Biotechnology, Environmental Biology, and Biodiversity.

www.fcv.espol.edu.ec

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ESPOL



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International Relations

Through its External Relations Office, ESPOL promotes and develops partnerships with international cooperation organizations, academic institutions, and research centers. These partnerships create mobility opportunities for the entire ESPOL community and contribute to the excellence that distinguishes the institution.

More than 226 international agreements allow students to participate in experiences abroad, including semester or year-long exchange programs, pre-professional internships, research placements, and participation in conferences, competitions, and other academic activities.

163

universities
around the world

