Master of Science (MSc) in Molecular Life Sciences specialisation in

**Integrative Biology**

www.unil.ch/ecoledebiologie
The aim of Integrative Biology is to integrate information across the numerous levels of biological organisation ranging from molecules to ecosystems. The specialisation Integrative Biology is based on the proposition that the molecular life scientist of the future is best served by acquiring an integrative approach – both methodological and intellectual – to the study of life.

OBJECTIVES / ASSETS
Many biological questions can best be tackled with a multidisciplinary approach. The main objective of this specialisation is to familiarize you with this concept by encouraging you to select research projects and courses from a variety of disciplines. This choice will expose you to diverse theoretical and technical approaches in different model systems, combining experimental and computational methodologies. The course “Sequence a Genome” illustrates this concept: This is a “hands on” course where a combination of computational approaches and biological insight is an essential feature for success.

CONTENT
The MLS specialisation Integrative Biology shares two common activities with the other MLS subject areas: the “Sequence a Genome” course and a scientific writing class where you write a review article and a research proposal.

You are encouraged to select a large variety of optional courses covering numerous topics including:

| Cellular and Developmental Biology | Genetics and Genomics | Signal Transduction |
| Biotechnology | Computational Biology | Plant Biology | Microbiology |

To acquire practical expertise you complete a “First step” project during the first semester and a Master project during semesters 2 and 3.

This specialisation provides you with a broad perspective in biology that is of high importance for academic and applied research, teaching, journalism and other professional activities where a solid background in biology is required.