

## CIENCIAS

### ABET

Baccalaureate degree program student outcomes must include, but are not limited to the following:

- An ability to *identify, formulate, and solve* broadly defined technical or scientific *problems* by *applying knowledge of mathematics and science* and/or technical topics to areas relevant to the discipline.
- An ability to formulate or design a *system, process, procedure* or *program* to meet desired needs.
- An ability to develop and conduct *experiments or test hypotheses, analyze and interpret data* and use scientific judgment to draw conclusions.
- An ability to *communicate effectively* with a range of audiences.
- An ability to *understand ethical and professional responsibilities* and the impact of technical and/or scientific solutions in global, economic, environmental, and societal contexts.
- An ability to function effectively on *teams* that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty.

### Cambridge

<https://www.natsci.tripos.cam.ac.uk/subject-information/overallps/aims>

Programme Outcomes for the Natural Sciences Tripos

Students who qualify with a B.A degree, having taken Parts IA, IB and II of the Natural Sciences Tripos, should have:

- had experience of a number of broad areas of science from a choice of options, taken to an advanced level, at which *current research* can be appreciated in some depth
- completed courses designed to increase their *understanding of the broad applicability* of their chosen subject in the wider context of scientific study
- had experience of *independent work*, including an introduction to aspects of scientific research
- substantially developed *intellectual and professional skills* in key areas of science
- substantially developed *experimental and data analysis* skills through a wide range of experiments in the practical laboratories to illustrate major themes of the lecture courses
- Substantially developed *communication and management skills* through individual and group activities.

Students who qualify with an M.Sci. degree, having also taken Part III of the Natural Sciences Tripos, should have:

- Carried out a substantial independent research project in their chosen field and become well-prepared for a career in academic or industrial research.