



Photo: Thiago Barbosa



Assessoria de Comunicação e Imprensa



  
**UFABC**  
Federal University of ABC

## BACHELOR IN SCIENCE AND TECHNOLOGY

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 **UFABC**

 **Relações Internacionais**  
Universidade Federal do ABC



Located in the industrial belt of São Paulo – Brazil’s largest city – in an area known as ABC, *Universidade Federal do ABC* (UFABC) was created to contribute directly and indirectly to the education of Brazilian people, to advance knowledge in engineering, mathematics, computing, natural and human sciences; and to meet the demands of regional industrial activity and public administration.

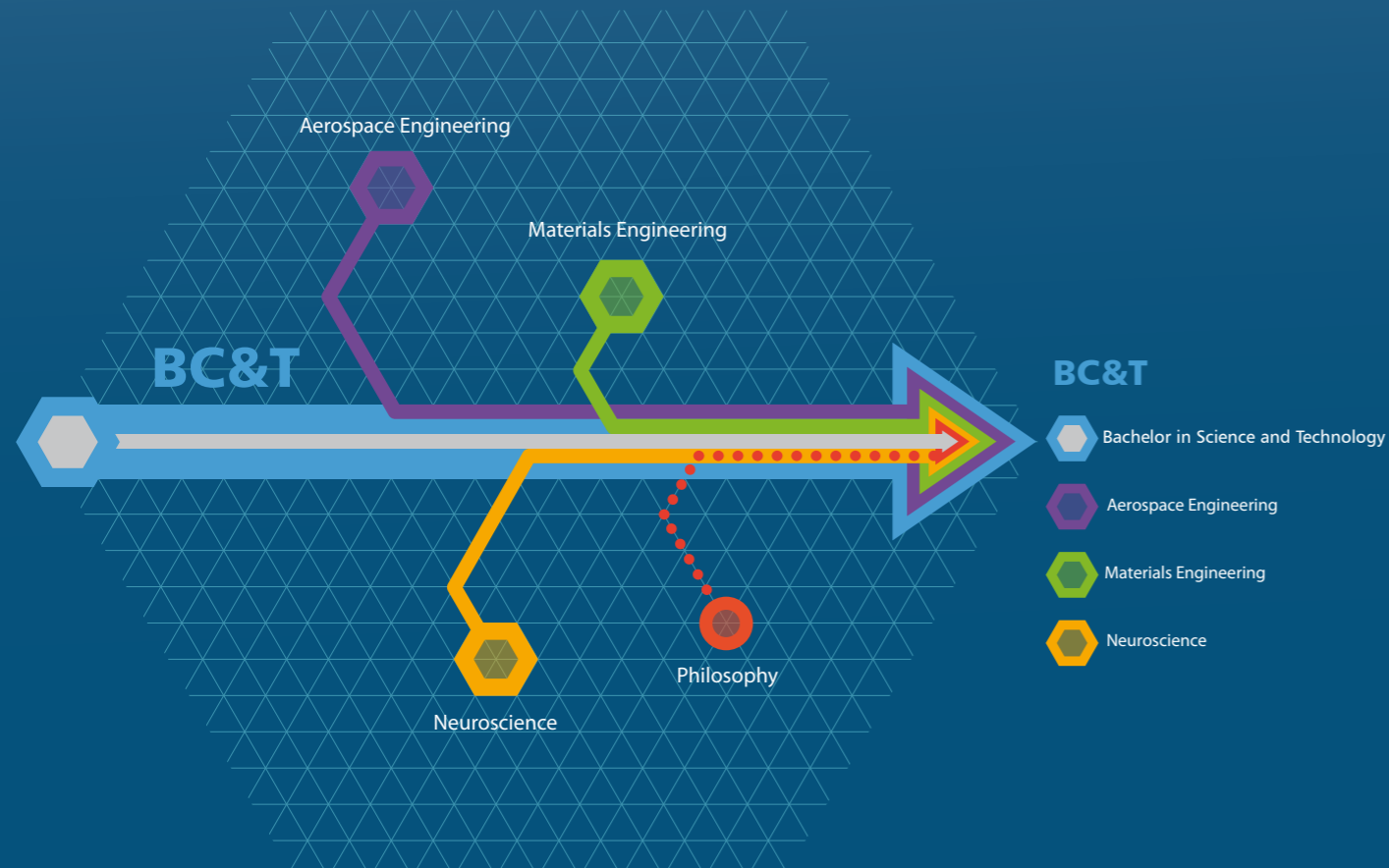
Founded in 2006, today it operates two campi, both still partly under construction, and has already established a reputation for high-level interdisciplinary research and teaching.

- Interdisciplinarity**
- Social Inclusion**
- Excellence**
- Internationalization**

UFABC is a fairly new university, created only nine years ago. Its creation answered to a call for a revolution in scientific progress in Brazil, inspired by new trends in academic innovation, such as interdisciplinarity, excellence based on rigor and creativity, and social inclusion.

A completely novel academic plan was proposed with innovative foundations for two interdisciplinary bachelor's degrees, the Bachelor in Science and Technology (BC&T) and the Bachelor in Sciences and Humanities (BC&H). All students are admitted into one of the two interdisciplinary programs, but they are allowed to choose their courses freely – even from the other interdisciplinary bachelor –, and being admitted into a specific program is not a requirement to enroll in courses offered by that program.

The curriculum of the Bachelor in Science and Technology is personalized in a way that allows students to exert control over their own academic career, according to their aspirations and calling.



Required courses are accomplished in all 6 of the following dimensions of knowledge:

- ✔ Communication and Information**
- ✔ Transformation processes**
- ✔ Matter structure**
- ✔ Representation and Simulation**
- ✔ Energy**
- ✔ Humanities and Applied social sciences**

The courses interact through their interdisciplinary nature, combining more than one dimension in their content.

Only a little over 45% of courses are required, the rest are elective courses that can be chosen from those offered in the bachelor, engineering or teaching programs the student is interested in, and they are not imposed with the need for prerequisites to enroll in said courses.

This model provides students with flexibility in the way they manage their academic careers. They can choose to graduate from the BC&T alone, in which case over 50% of earned credits come from elective courses; they can choose also to graduate from one or more specific programs – as do most of our students – and they earn a diploma for each completed program, including BC&T.

The structure of the program enables students to lead important discussions, research projects and to propose solutions to the great problems of our century, such as Energy, Information, Health, Environment, Technological ability to model in micro or macro levels, Education and Mobility.

#### Areas of knowledge offered to students of the BC&T

- Biological Sciences (B/T)
- Chemistry (B/T)
- Computer Science
- Mathematics (B/T)
- Neuroscience
- Physics (B/T)
- Aerospace Engineering
- Biomedical Engineering
- Energy Engineering
- Engineering Management
- Environmental and Urban Engineering
- Information Engineering
- Instrumentation, Automation and Robotics Engineering
- Materials Engineering

The pedagogical plan is in constant review, following new directives from the Faculty bodies, who must always look for changes in the way knowledge is organized.