Bio-engineering (BIO)

Semester
Spring

In brief

Course langage: English

Presentation

Learning objectives

Bioengineering holds enormous promise for addressing the unprecedented challenges facing humanity. Among these, health represents a major condition for the well-being of populations and the demand for it will clearly intensify with the increase in the level and expectation of life. However, many other sectors are concerned. The crucial issues of resource depletion and the degradation of our living space can only be resolved by developing processes that are as efficient and in harmony with nature as those that govern living systems. It is only by understanding these systems, using them for human purposes and drawing inspiration from them that we will be able to meet these challenges.

The one-semester bioengineering training program of École Centrale de Marseille aims at broadening students' horizon by interdisciplinary teachings in order to be able to approach "life" all its main aspects.

The courses will be given in English. This track is shared with international Centrale Marseille's students from MscT Complex Systems Engineering - BioEngineering track.

Description of the programme

A complete description of this track can be downloaded here in French or in English.

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Sustainable Development Goal



Access to health



Quality education



Clean water and sanitation



Life below water



Life on land

Total des heures **0h**

List of courses

	Nature	CM	TD	TP	Crédits
The bricks of life	MODULE	50h		8h	5 credits
Imaging and Wave Therapies	MODULE	36h		10h	4 credits
Biotechnologies and Chemical Therapies	MODULE	42h		12h	4 credits
BIO Planet	MODULE	15h			4 credits
Bio-Informatics and Image Processing	UE	36h		16h	4 credits
Alternance Intégrative IS	UE		24h		1 credits