

Course Descriptions Bachelor 2021-2022

Course Title	Biotechnology																
Course Code	BENC2005																
ECTS Credits	5,0																
Assessment	Whole/Half Grades																
Period	<table><thead><tr><th>Period</th><th>Start</th><th>End</th><th>Mon</th><th>Tue</th><th>Wed</th><th>Thu</th><th>Fri</th></tr></thead><tbody><tr><td>1</td><td>30-8-2021</td><td>15-10-2021</td><td></td><td>X</td><td></td><td>X</td><td>L</td></tr></tbody></table>	Period	Start	End	Mon	Tue	Wed	Thu	Fri	1	30-8-2021	15-10-2021		X		X	L
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1	30-8-2021	15-10-2021		X		X	L										
Level	no level																
Coordinator	Luisa Bortesi For more information:luisa.bortesi@maastrichtuniversity.nl																
Language of instruction	English																
Goals	<ul style="list-style-type: none">* Describe how biological systems are built and the basic principles of molecular biology* Explain the relationship between genotype, phenotype and environment* Illustrate the latest techniques and approaches used in biotechnology* Give examples of commercially successful biotechnological processes in different fields of application* Present about a scientific topic to an audience of peers																
Description	<p>This course aims at introducing students to the field Biotechnology and to make them aware of how biotechnological applications affect our daily lives. Starting from the definition of life, students will understand the basic characteristics and functioning of biological systems. They will then learn how the genetic information of an organism relates to its phenotype, and how modification of this information –using recombinant DNA technology or genome editing tools- allows us to harness biological processes. By being confronted with cutting-edge examples of applications in different fields, ranging from agriculture to medicine to materials science, students will understand the potential of biotechnology in driving innovation. They will also reflect on some of the current and future ethical questions and dilemmas dealing with biotechnology and society.</p>																
Literature	A variety of articles, videos, and/or book chapters which will be made available online on a weekly basis.																
Prerequisites																	
Keywords																	
Teaching methods	Lecture																
Assessment methods	Written Exam / Presentation																
Evaluation in previous academic year	For the complete evaluation of this course please click http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM																
This course belongs to the following programme / specialisation	<table><tr><td>Bachelor Business Engineering</td><td>Year 2 Elective Course(s)</td></tr></table>	Bachelor Business Engineering	Year 2 Elective Course(s)														
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