

## Biotechnology in a Professional and Societal Context (I002933)

**Cursusomvang** *(nominale waarden; effectieve waarden kunnen verschillen per opleiding)*

**Studiepunten 4.0** **Studietijd 120 u**

**Aanbodsessies in academiejaar 2023-2024**

A (Jaar) Engels Gent

**Lesgevers in academiejaar 2023-2024**

Van de Wiele, Tom	LA25	Verantwoordelijk lesgever
De Mey, Marjan	LA25	Medelesgever
Desmet, Tom	LA25	Medelesgever
Geelen, Danny	LA21	Medelesgever
Kyndt, Tina	LA25	Medelesgever
Skirtach, Andre	LA25	Medelesgever
Van Camp, John	LA23	Medelesgever
van der Meulen, Karen	LA25	Medelesgever

**Aangeboden in onderstaande opleidingen in 2023-2024**

	stptn	aanbodsessie
<a href="#">Master of Science in Bioscience Engineering: Cell and Gene Biotechnology</a>	4	A

**Onderwijstalen**

Engels

**Trefwoorden**

Biotechnology, Technology Transfer

**Situering**

This course aims at interactively familiarizing the student with the current applications of biomedical, industrial and plant biotechnology. The course raises the student's awareness on writing and managing a research project, dissemination and valorization of its results and its impact on the society.

**Inhoud**

1. Project conceptualization and writing
2. Project management including biosafety and regulation
3. Dissemination
4. Valorisation

**Begincompetenties**

Case Studies inl Biotechnology builds on certain learning outcomes of course unit Plant Biotechnology, Industrial biotechnology, Human and Animal Biotechnology and Management for Engineers; or the learning outcomes have been achieved differently.

**Eindcompetenties**

- 1 the students have acquired a sound understanding in project writing and management
- 2 Understand and apply appropriate biosafety (and biosecurity) measures related to experimental set-up and procedures and Recognize applicable legal requirements and prepare the necessary documents to obtain authorizations
- 3 the students have acquired a sound understanding of the socioeconomic relevance of academic research and expertise, particularly biotechnology
- 4 the students have acquired a sound understanding of the Valorization/Techtransfer landscape, from both an academic and industry point of view.
- 5 the students have acquired a sound understanding of how to detect research results or know-how that potentially can make it to real-life applications, and of how to purposely

- develop this know-how into mature technology that is ready for transfer to industry.
- 6 Have good social and communication skills to function in a team
  - 7 Display good communication skills to pitch a project proposal and defend it in front of an assessment committee, composed of lecturers and student peers

#### **Creditcontractvoorwaarde**

Toelating tot dit opleidingsonderdeel via creditcontract is mogelijk mits gunstige beoordeling van de competenties

#### **Examencontractvoorwaarde**

Dit opleidingsonderdeel kan niet via examencontract gevolgd worden

#### **Didactische werkvormen**

Groepswerk, Hoorcollege, Zelfstandig werk

#### **Toelichtingen bij de didactische werkvormen**

Study coaching is foreseen as face to face contact during set hours or via e-mail with the main lecturer being available for addition information or clarification of the course material or task given.

#### **Leermateriaal**

#### **Referenties**

#### **Vakinhoudelijke studiebegeleiding**

Intensive coaching and collaboration between students, lecturers and assistants

#### **Evaluatiemomenten**

periodegebonden en niet-periodegebonden evaluatie

#### **Evaluatievormen bij periodegebonden evaluatie in de eerste examenperiode**

Mondelinge evaluatie, Peer en/of self assessment, Werkstuk

#### **Evaluatievormen bij periodegebonden evaluatie in de tweede examenperiode**

Mondelinge evaluatie, Werkstuk

#### **Evaluatievormen bij niet-periodegebonden evaluatie**

Participatie, Werkstuk

#### **Tweede examenkans in geval van niet-periodegebonden evaluatie**

Niet van toepassing

#### **Toelichtingen bij de evaluatievormen**

Students are evaluated based on their participation to the various activities (presence as well as contribution) and the submitted assignments

#### **Eindscoreberekening**

Students who eschew period aligned and/or non-period aligned evaluations for this course unit may be failed by the examiner.