

## MASTERPROEF (I001484)

Wegens Covid19 kan mogelijk afgeweken worden van de onderwijs- en evaluatievormen. Dergelijke afwijkingen zullen via Ufora worden gecommuniceerd.

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

**Studiepunten** 30.0      **Studietijd** 900 u      **Contacturen** 300.0 u

**Aanbodsessies en werkvormen in academiejaar 2021-2022**

A (jaar)      Engels      Gent      masterproef      300.0 u

**Lesgevers in academiejaar 2021-2022**

De Mey, Marjan      LA25      Verantwoordelijk lesgever

**Aangeboden in onderstaande opleidingen in 2021-2022**

	stptn	aanbodsessie
<a href="#">Master of Science in Bioscience Engineering: Cell and Gene Biotechnology</a>	30	A

### Onderwijstalen

Engels

### Trefwoorden

Scientific research, research techniques, scientific reporting, written manuscript, oral presentation

### Situering

Students can choose the topic for their master's dissertation (thesis) in a broad range of disciplines in which the scientific staff of the master programs is active. In general, the students become involved in ongoing research within the research laboratories of their promoter(s). They can however also propose their own research topic. Students have to conduct research with the appropriate expertise in order to contribute to the development of a particular research domain.

The ultimate goal is to initiate students into research at an academic level so that, upon completion of their master program, they are able to carry out scientific research in a proper way.

### Inhoud

The master's dissertation is a written report of the scientific research the student has conducted.

This manuscript contains the following items, similar to the structure of a scientific publication:

- o preface
- o table of contents
- o list of abbreviations
- o abstract
- o introduction
- o relevant literature: should contain only what is necessary to understand the work, with a focus on a critical synthesis
- o materials and methods: trivial and well known methods should not be explained in detail
- o results: raw data can be delivered in an electronic format
- o discussion
- o general conclusions
- o recommendations for further research
- o list of references
- o appendices (only in an electronic format)

More information about the practical procedure for the master's dissertation and about the properties, rights and duties of those involved in the master's dissertation can be found on the

website of the faculty.

### **Begincompetenties**

The competences that can be expected from a Bachelor of Bioscience Engineering, supplemented with a thorough scientific basic knowledge and knowledge of research techniques in the field of the master of Bioscience Engineering.

### **Eindcompetenties**

- 1 define a research problem
- 2 formulate clear research questions
- 3 set up an appropriate methodology
- 4 carry out a critical literature study
- 5 collect data meticulously (using existing data sets or data obtained by lab or field work or surveys)
- 6 process data in a correct way
- 7 analyze data in a critical way
- 8 make a concise synthesis
- 9 draw up a final manuscript – scientific report
- 10 show the necessary independence, motivation, dedication and initiative while obtaining final competences 1-9
- 11 give a clear oral presentation of the results of the work
- 12 argue in a well founded manner during the discussion

### **Creditcontractvoorwaarde**

Dit opleidingsonderdeel kan niet via creditcontract gevolgd worden

### **Examencontractvoorwaarde**

Dit opleidingsonderdeel kan niet via examencontract gevolgd worden

### **Didactische werkvormen**

Masterproef

### **Leermateriaal**

### **Referenties**

Practical Research: Planning and Design by Paul D. Leedy & Jeanne Ellis Ormrod, 2009, Prentice Hall. ISBN 9780137152421

### **Vakinhoudelijke studiebegeleiding**

The master's dissertation is actively coached by the promotor(s) and tutor(s) during counseling meetings, during which the work as well as the ongoing learning process involved are reviewed.

### **Evaluatiemomenten**

periodegebonden en niet-periodegebonden evaluatie

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

Mondeling examen, werkstuk

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

Mondeling examen, werkstuk

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

Participatie

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

Examen in de tweede examenperiode is mogelijk

### **Toelichtingen bij de evaluatievormen**

Size of the dissertation manuscript: aim at 60 pages/ 20.000 words (from "introduction" up to and including "list of references")

Timing of the oral examination:

o oral presentation: maximum 10 min

o interactive discussion: 15 min (no questions are asked by the promotor(s))

o deliberation: 10 min

### **Eindscoreberekening**

30 scored by the promoter + tutor when evaluating final competences 1-9 (based on the practical work and the manuscript)

10 scored by promoter + tutor when evaluating final competence 10: dedication, independence, ...

30 arithmetic mean of the scores of the members of the dissertation reading committee; these scores are based mainly on the manuscript, which they used to evaluate final competences 6-9

10 collective score of the promoter(s), the members of the dissertation reading committee, the chairperson and secretary, after evaluation of final competence 11

20 collective score of the promoter(s), the members of the dissertation reading committee, the chairperson and secretary, after evaluation of final competence 12

100 sum, to be converted to 20 after deliberation

Note: following deliberation the jury can defer from the calculated score. This will always be motivated.

Students who eschew periodic and/or permanent evaluations may be failed by the examiner