Bachelor Nanobiology

2023
2024

Bachelor's Program

1st year

	1st PERIOD		2nd PERIOD		3rd PERIOD		4th PERIOD		
	Octal 1	Octal 1b	Octal 2a	Octal 2a	Octal 3a	Octal 3b	Octal 4a	Octal 4b	
Month	September, October		November, December	January	February, March	April	May	June	July
Week	1 2 3 4 5 6 7 8 9 10		1 2 3 4 5 6	7 8 9 10	1 2 3 4 5 6 7 8 9 10		1 2 3 4 5 6 7 8 9 10		1 2 3

1st period
- Octal 1: Introduction to Studying Nanobiology, NB1031, 3 EC
- Octal 1b: Chemistry 1, NB1102, 3 EC
- Octal 1 + 1b: Genetics, NB1022, 4 EC
- Octal 1 + 1b: Analysis 1, NB1201, 5 EC

2nd period
- Octal 2a: Chemistry 2, NB1110, 3 EC
- Octal 2a: Biochemistry, NB1012, 3 EC
- Full period: Physics 1a, NB1140, 4 EC
- Full period: Analysis 2, NB1206, 5 EC

3rd period
- Full period: Molecular Biology, NB1016, 3 EC
- Octal 3a: Physics 1b, NB1143, 3 EC
- Octal 3b: Biophysics, NB1132, 3 EC
- Full period: Analysis 3, NB1211, 3 EC
- Full period: Labcourse Nanobiology A1 NB1150 or B1 NB1163, 3 EC

4th period
- Biomolecular Programming, NB1120, 3 EC
- Physical Biology of the Cell 1, NB1072, 3 EC
- Journal Club 1, NB1052, 3 EC
- Linear Algebra, NB1230, 3 EC
- Labcourse Nanobiology A2 NB1151 or B2 NB1164, 3 EC

Summer Holiday

Resits

2nd year

	1st PERIOD		2nd PERIOD		3rd PERIOD		4th PERIOD		
	Octal 1	Octal 1b	Octal 2a	Octal 2a	Octal 3a	Octal 3b	Octal 4a	Octal 4b	
Month	September, October		November, December	January	February, March	April	May	June	July
Week	1 2 3 4 5 6 7 8 9 10		1 2 3 4 5 6	7 8 9 10	1 2 3 4 5 6 7 8 9 10		1 2 3 4 5 6 7 8 9 10		1 2 3

1st period
- Biomolecular Structure and Function - NB2230, 3 EC
- Thermodynamics and Transport - NB2011, 3 EC
- Physics 2, NB2141, 3 EC
- Differential Equations, NB2191, 3 EC

2nd period
- Philosophy and Ethics, NB2022, 3 EC
- Physical Biology of the Cell 2, NB2071, 3 EC
- Signals and Systems, TN2545, 6 EC

1st + 2nd period
- Electronic Instrumentation, NB2214, 6 EC

3rd period
- Computational Science, NB2181 - 3 EC (3rd period through Octal 4a)
- Octal 3a: Statistics, NB2171, 3 EC
- Octal 3b: Optics and Microscopy, NB2041, 3 EC
- Full period: Evolutionary and Developmental Biology, NB2032, 6 EC
- Microscopy/Nanoscopy Pacticum, NB2046 - 1.5 EC

4th period
- Journal Club 2 - NB2151 - 1 EC
- Bioinformatics, NB2161, 4.5 EC
- Image Analysis, NB2121, 3 EC
- Statistical Physics, NB2220, 3 EC
- Nanotechnology, NB2081 - 2 EC

Summer Holiday

Resits

Legend

- Integrated Courses
- Biology/Chemistry
- Physics
- Mathematics
- Practica

EC: European Credit

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Academic skills in Nanobiology courses

Part of the Nanobiology programme is to learn academic skills. Most courses include opportunities to learn at least one of these skills. The courses listed below offer these skills in at least two areas:

Presenting

Programming

Group work

Practical

Writing

YEAR 1						
Introduction to Studying Nanobiology	NB1031			●		●
Journal Club 1	NB1052	●		●		●
Labcourses	NB1151 / NB1164	●		●	●	●
Biophysics	NB1132		●			●

YEAR 2						
Philosophy and Ethics	NB2022			●		●
Evolutionary and Developmental Biology	NB2032	●				●
Microscopy / Nanoscopy Practice	NB2046			●	●	●
Physical Biology of the Cell 2	NB2071					●
Nanotechnology	NB2081			●	●	●
Image Analysis	NB2121		●		●	
Journal Club 2	NB2151	●		●		
Bioinformatics	NB2161		●		●	
Computational Science	NB2181	●	●		●	●
Electronic Instrumentation	NB2214		●		●	●
Statistical Physics	NB2220		●			●

YEAR 3						
Bachelor End Project	NB3000	●	●		●	●
Nanomedicine	NB3011	●			●	●
Computational Neuroscience	NB3014	●	●	●		●
A Primer in Neuroscience	NB3015	●		●		●
High-Speed Scientific Computing	NB3016		●			●
Epigenetics	NB3022	●		●	●	

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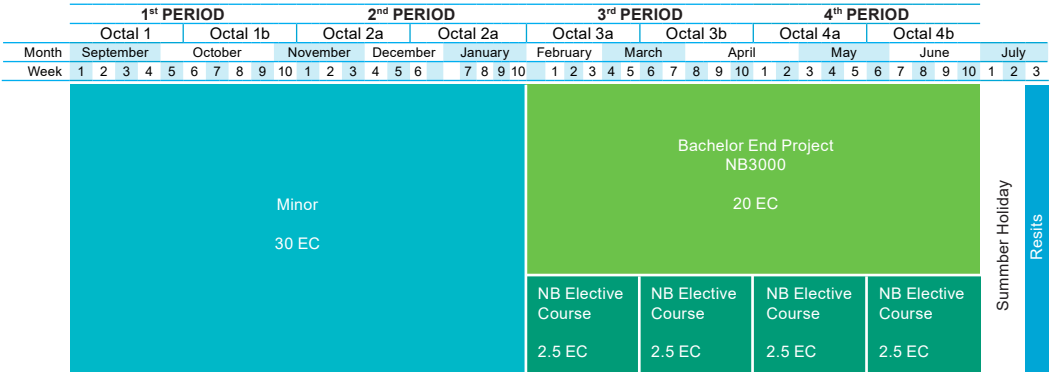
3rd year



Elective courses

Find more information on these electives via the studyguide, using the course codes.

NB3014	Computational Neuroscience
NB3015	A Primer in Neuroscience
NB3016	High-Speed Scientific Computing
NB3017	Quantum Mechanics for Nanobiology 1
NB3018	Quantum Mechanics for Nanobiology 2
NB3019	Molecular Motors
NB3020	Genomics Technology in Breast Cancer Research
NB3021	Optics and its Applications in Nanobiology
NB3022	Epigenetics
NB3023	Human Complex Genetics
NB3024	Advanced Math Topics
TBM301A	Writing a Bachelor's Thesis in English

Minors

General information

For more information on minors, including the free minor option and an overview of thematic minors:

http://minor.tudelft.nl

Brightspace > catalog > search for 'Nanobiology bachelor'

Minor Collaborative Science for Biomedical Breakthroughs.

A selection minor offered to all Bachelor students.

minor-csbb@tudelft.nl

Minor abroad

International Office Applied Sciences

Information and registration form on:

buitenland.tudelft.nl

InternationalOffice-TNW@tudelft.nl

Honours Programme Bachelor Nanobiology

Students with excellent study progress, will be invited to join the Nanobiology Honours Programme. It includes an additional interdisciplinary coursework, seminars and a research project. Eligible students will be invited for the programme at the end of year 1.

HP-BSc-NB@tudelft.nl

Bachelor End Project (BEP)

Information and registration form on:

Brightspace > catalog > search for 'Thesis Office'

ThesisOffice-TNW@tudelft.nl

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General information

Brightspace
Brightspace is TU Delft's digital learning and communication environment for students & staff.
brightspace.tudelft.nl

Study guide
For programme details, courses and course details.
studyguide.tudelft.nl

Timetables
TUD and Erasmus MC
mytimetable.tudelft.nl
https://stip.erasmusmc.nl/Nanobiology/862

Register for exams
Exams require advanced registration!
There are strict deadlines.
Written exams:
my.tudelft.nl
All other assessments:
see Brightspace course for instructions

Binding study recommendation
bsa.tudelft.nl

Education and Student Administration
contactcentre-esa@tudelft.nl
www.tudelft.nl/en/student/administration

Regulations degree programmes
The rules and regulations concerning education programmes and examinations. Each programme has individualized regulations.
tnw.tudelft.nl/regulations

Faculty student portal
TUD and Erasmus MC
tnw.students.tudelft.nl
https://stip.erasmusmc.nl/Nanobiology

Servicedesk
The place for questions or complaints concerning the building, facilities, ICT, coffee machines, certified transcripts and issues regarding theft.
TUD and Erasmus MC
servicedesk.tudelft.nl
https://stip.erasmusmc.nl/Nanobiology

E-service
For questions regarding (reactivation of) NetID.
e-service.tudelft.nl

Study association
S.V.N.B.Hooke
hooke.tudelft.nl

Programme team

Programme Director
Joris Pothof
Has final responsibility for the BSc programme.
J.pothof@erasmusmc.nl

Programme coordinators
Johanna Colgrove & Diane Mevius
Consult them if you have questions about the organisation and logistics of the programme or if you have ideas for improvements.
info-bsc-nb@tudelft.nl

Selection coordinator
Diane Mevius
Consult her if you have questions about the selection procedure.
tudelft.nl/bsc/nb/nc
Selection-BSc-NB@tudelft.nl

Academic counsellor
Tanja Hilkhuijsen
Consult her on all kinds of study-related matters, including personal problems.
studieadviseur-NB@tudelft.nl

Programme assistant
Anne Huijsman
Contact person for questions regarding logistics of studying at Erasmus MC
opleiding.nanobiologie@erasmusmc.nl

Board of Examiners
Responsible for the quality of the programme, ensuring that the rules are followed and adjudicating exceptions.
EC-NB@tudelft.nl
regulations.tudelft.nl

Board of Studies
Responsible for advising the programme on content.
Student portal > organisation > bos applied sciences

Career & Counselling Services
Student counsellors and coaches. Workshops and trainings for students and career support.
www.tudelft.nl/en/student/counselling/career-counselling-services

Good start
A quick way to get to know everything you need for a good start.
www.tudelft.nl/goodstart