

UNIVERSITY PROGRAMME OLIALITY CLOSLIRE AND OLIALITY PLAN 2023



Bachelor's Programme in Biomedicine

Summary of programme quality closure

Results - focus on strengths and weaknesses

- 1.TBL has now been implemented in all courses at the programme and was overall appreciated. Concerns included short time between iRAT and re-iRAT in some courses, varying difficulty of iRATs and quality of TBL applications.
- 2. Ortrac was used in all courses for submission and assessment of assignments, as well as for communicating course material and information. Recurrent problem that material for preparation was sometimes not published well in advance to the learning activity. Teachers commented on slow technical support when problems occurred.
- 3. Course portfolios complement written examinations and are often graded (U/G/VG). The assignments are often seen as stressful by the students. In addition, instructions and assessment criteria are not always clear and students ask for more and earlier feedback.
- 4. Practicals were overall very appreciated, but also perceived as challenging by the students.
- 5. A recurrent comment from the course evaluations closures was a high workload, especially at the end of courses.
- 6. Response rates at course evaluations varied between 33% to 78%, with mean and median 56%.

Possible explanations

- 1. TBL is still new to some teachers and designing good iRATs, TBL applications and study guides is challenging.
- 2. Although improvements in Ortrac and more experience with the system, students and teachers are still not used to the system which causes technical problems and frustration.
- 3. Assessment criteria need to be specific for each assignment, aligned with course learning outcomes and clearly specify what is required for each grade. Feedback and evaluation of written assignments is very time-consuming and stressful for teachers.
- 4. The number and extent of practicals are limited by budget and logistics. Therefore, students may not be trained enough to feel confident in a laboratory setting.
- 5. Parallell learning activities (eg TBL and portfolio) can lead to a high and uneven workload.
- 6. Course evaluations are sent out after the course ends and are optional.

Suggestions of measures and further development

- 1. A TBL workshop with Larry Michaelsen was held for teachers in September 2023, with the following topics: Getting beyond covering content: a key to preparing students for future professions, Designing group work that really works, and Improving your TBL applications. This will be followed-up in teacher meetings during 2023/2024. All re-iRATs will be given as a common re-examination in each course.
- 2. A template for course start pages has been implemented and work is ongoing to structure courses with modules, in order to facilitate management by teachers and location of information, assignments etc for students.
- 3. The examination committee is, and will be, involved in the review of existing and construction of new assessment criteria. Teacher's must have time for constructive feedback and evaluation of assignments, this will be prioritized in course budgets.
- 4. The existing practicals at the first semester will be reviewed, as they forms the base for laboratory skills.
- 5. Teachers should review schedules to avoid crammed deadlines and communicate to students early what is expected in each activity.
- 6. Course managers are asked to inform students on changes done based on previous course evaluations, this could increase student's incitement to answer course evaluations.



Bachelor's Programme in Biomedicine

The programme in figures

Number of students that applied to the programme 2022:	848+965	(national + international)
Number of students that applied to the programme 2022 with prio 1:	141+434	
Number of students that applied to the programme 2023:	833+1086	
Number of students that applied to the programme 2023 with prio 1:	155+479	
Number of new programme students accepted 2022:	27+26	
Number of new programme students accepted 2023:	22+35	
Number of new programme students that were registered 2022:	29+10	
Number of new programme students that were registered 2023:	21+19	
Funding agreement targets 2022 (MKr)	21.3*	
Result accounted for 2022 – (HST+HPR)	24.7*	
Number of full-time equivalent students 2022 (HST):	113	
Number of annual performance equivalent 2022 (HPR):	114	
Number of degrees awarded 2022:	27	
Budget for 2022:	18.4*	
Economic result 2022:	-0.5*	
Budget for 2023:	20.3*	

Number of teachers involved (>2h):

Representatives in committees

Programme director: Maria Swanberg

Programme steering committee:

Karin Stenkula, Mattias Collin, Thomas Hellmark, Viktoria Willenfelt Lumpkins, Sara Holmgren, Susanne Destow, Alexandra Velkova (student)

International committee:

Mattias Collin, Maria Swanberg

Examination committee:

Harry Björkbacka, Magnus Hillman (2022), Oonagh Shannon (until October 2022), Marianne Jansson (from spring 2023) , João Duarte (from spring 2023), Josefin Malmberg (student), Alexandra Velkova (student)

Student welfare committee:

Bodil Sjögreen, Nicholas Leigh (from Octover 2022), Susanne Destow, Sara Holmgren, Oonagh Shannon (until Octtober 2022) Other working groups or committees:

Appendixes

- 1. List of courses
- 2. Quality plan 2023

^{*}Both Bachelor and Master programmes.



Bachelor's Programme in Biomedicine

3. Course quality evaluations



Bachelor's Programme in Biomedicine

Appendix 1. List of courses

Course code	Course name	Credits (ECTS)	Semester*	# of students	# passed the course	Course closure available
BIMB10	Biology and Chemistry of the Cell	30	Sem 1	38	35	yes
BIMB20	Biochemistry and Cellular Metabolism	7,5	Sem 2	38	37	yes
BIMB21	Genetics and Genomics	7,5	Sem 2	38	37	yes
BIMB23	The Cell and its Environment	15	Sem 2	38	35	yes
BIMB30	Developmental and Stem Cell Biology	7,5	Sem 3	41	41	yes
BIMB31	From Neuron to Nervous System	7,5	Sem 3	42	42	yes
BIMB32	The Immune System	7,5	Sem 3	43	41	yes
BIMB33	Host-pathogen Interactions	7,5	Sem 3	44	43	yes
BIMB40	Organ Systems and Homeostasis of the Human Body	15	Sem 4	44	39	yes
BIMB41	Molecular Basis of Disease	7,5	Sem 4	43	41	yes
BIMB42	Pharmacology and Drug Discovery	7,5	Sem 4	43	39	yes
BIMB50	Frontiers in Translational and Molecular Medicine	22,5	Sem 5	27	27	yes
BIMB51	Applied Biomedicine	7,5	Sem 5	27	26	yes
BIMK60	Degree Project	30	Sem 6	31	30	yes
VMFB23?	Methodology Project, First Cycle	15	FS	4	4	no
VMFB19?	Methodology Project, First Cycle	30	FS	3	3	no
			Sem 1			no
			Sem 1			no

^{*} FS: Free standing



The Master's Programmes Board Bachelor's Programme in Biomedicine

Valid for the academic year 23/24

Overall quality criteria	Quality objectives	Activities	Planned to start	Planned to end	Responsible	Status / Follow up	Actions/feedback:
Refers to "Policy för kvalitetssäkring och kvalitetsutveckling av untbildning vid Lunds universitet"		Planned activities to reach the objectives				Annually	What does the program do with the results and how are these disseminated to relevant stakeholders?
The actual study results correspond to learning and programme syllabus outcomes.	To have a complete mapping and blue printing of the programme to obtain alignment and transparency	1) Curriculum mapping: connect competences and learning outcomes to the programme syllabus in Ortrac (QPS) 2) Blueprinting: connect learning activities, assignmetns and assessments to course learning outcomes 3) Engagement of the PNM examination committee in course development.	Ongoing	1) Curriculum mapping was completed in 2022, and will be continuously updated for new learning activities, outcomes and courses. 2) Blueprinting is to be done whenever a new course syllabus, learning activity or assessment criteria are implemented. 3) Review of existing courses planned to be completed 2025. New courses/activities consequently.	Course managers, examiners and programme directors	Followed-up in conjunction with course quality closures and programme quality closure and with data from Ortrac	1) Teachers and programme directors can monitor mapping and blueprinting across courses within the program. When alignment needs improvement, this is discussed with representatives from the involved courses. 2) Students can individually follow their learning and results through the blueprinting in Ortrac. 3) Feedback from the examination committee on eg assessment criteria is formative for teachers and will improve current and future material.
The programme has the students' learning in focus.	To have student- centered learning throughout the programme in order to promote life-long learning and student responsibility for their own development.	Implementation and development of Team Based Learning (TBL) in collaboration with the TBLC. Flipped classroom strategies. Classroom activities focuses on	Ongoing	Ongoing	Course managers, programme directors and student representatives	In course evaluations, quality closures and by analyses of data in Ortrac.	Emphasize and prioritize student-centered learning activities in budgets and schedules as well as in workshops for teachers and course managers. Communication with student representatives.



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The education is based on scientific basis and best practice.	To use evidence-based learning methods to create the best possible conditions for learning.	interaction between students. Continuous assessment in QPS to visualize students' development. The mapping of activities and assessments to programme syllabus outcomes allows for analyses of performance at both an individual level and for cohorts. - Education of teachers at MedCUL - Increase engagement of ETPs from the faculty's pedagogic academy. - Invite teachers that have done pedagogic projects within the programme to share the results with the programme management and other relevant course managers/teachers.	Ongoing	Ongoing	Programme directors.	In course course- and programme quality closures.	- Map and support teachers' pedagogic development Communicate with other Swedish programmes in Biomedicine through national meetings, and with international partner universities (eg U21) Teachers and programme management to keep up-to-date on evidence-based teaching methods and course design, eg through workshops and feedback from the examination
T 1:						- ·	committee and ETPs.
Teaching staff have suitable	To have teachers at	- Education of	Ongoing	Ongoing	Programme directors,	Course quality	- Discuss with respective teacher and make a
education in subject-specific,	the programme that	teachers at MedCUL			course managers and	closures.	
pedagogic and didactic	have a keen interest in	- Follow-up on course			teachers.		development plan if
competences	teaching, relevant	coordinators' and					improvement is needed.
	pedagogic training	examiners' pedagogic					- Provide collegial support
	and proven subject	development.					within the programme.



Teacher capacity is sufficient.	To have a good recruitment base of teachers, course mangers, examiners and programme directors with appropriate experience, education and long-term employment contracts to cover the programme's needs.	- Appointments as course managers and examiners are announced in open competition and evaluated in a structured way, with emphasis on pedagogic education, experience with active learning methods and subject expertise. - To emphasize the programme's needs of teachers employed in the teacher category (senior lecturers, professors) to the Faculty management and respective board (Tjänste-AU). - To give appropriate compensation for teaching- and management assignments within the programme to be competitive compared to other assignments.	Ongoing	Ongoing	Programme directors, chairman of the board of master education (PNM), vice heads of departments (GAP), vice dean at the Faculty of Medicine	Quality dialogue and the faculty's employment dialogue (Tjänstedialog).	- Discuss teacher competencies and development with vice heads of departments (GAP). - Promote and highlight the need for senior lecturer-/ professorships in underrepresented areas and highlight the consequences of lack of faculty-financed teacher positions on the overall teaching and programme quality and continuity.
The education is relevant for the students based on the	To offer students relevant and authentic	-Authentic cases and examples from both	Ongoing	Ongoing	Programme directors	- In course and programme quality	- Communication with national and international
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societal needs.	training in skills and	life science industry				closures.	stakeholders, including
	applications that are	and academic				- Follow-up on alumni	universities, authorities and
	required for their	environments are				careers.	general public.
	future profession.	implemented in					- Interaction with life science
		applications and					industry through student
		portfolio assessments.					internships, at national fora



		- Representatives from					and at the local, student-
		areas outside					organized carreer fair.
		academia are included					organizea carreer jair.
		in the teaching.					
		-Interaction with					
		partners such as					
		Venture Labs to					
		increase students'					
		interest and					
		knowledge in					
		entrepreneurship.					
The students have influence	To have a good	- Student	Ongoing	Ongoing	Programme directors,	- Followed-up at bi-	Bidirectional communication
over planning, execution and	dialogue with, and	representatives elected			course managers,	weekly programme	between students and
follow up of the education.	involvement of,	through BUR/MF are			student course	management meetings	programme management to
	students to engage	involved in relevant			representatives and	and bi-annually	ensure understanding and
	them in their current	environments, such as			the student	programme	needs from both students and
	and future education.	board committees,			educational	workshops.	teachers.
	To improve the	working groups,			association	- In course evaluations	reactions.
	programme from a	programme			(BUR/MF).	and quality closures.	
	student perspective.	workshops, the			(BUNMI').	ana quanty crosures.	
	student perspective.	•					
		programme					
		management group					
		meetings and course					
		evaluations.					
		- Meetings are held in					
		English when needed.					
The learning and study	To offer learning	- Information and	Ongoing	Ongoing	Programme director,	Continuously.	- Follow-up through the
environment are suitable and	activities and	workshops held by the			student welfare		study counselor, student
accessible for all students	environments that	academic support			committee and study		welfare committee and
including well functional	support participation	center, student welfare			counselor.		programme directors.
support activities.	and learning for all	committee and study					- The outcome from surveys
	students at the	counselor.					is communicated with
	programme.	- Individual study					teachers and course
		plans when					managers.
		applicable.					Ü
		- Student surveys to					
		map what works					



		well and what needs improvement regarding learning activities and environments.					
There is a continuous follow up and development of the programme	To offer a competitive programme of highest international standards.	Programme development and quality work.	Ongoing	Ongoing	Programme management, student educational organisation (BUR/MF) and teachers.	Programme closure and quality assessment.	- Communication with student organizations and other Biomedicine programmes at a national level Information to prospective students (fairs, online etc).
Internationalization and international perspectives are promoted in the programme	Internationalization of the program is reflected in the student cohort, engagement of international teachers and a global perspective of Biomedicine.	- International admission of students Student and teacher mobility Applications are designed with a global health perspective International engagement can be highlighted by a certificate of international merits (CIM) attached to the diploma Global perspectives are emphasized in information to prospective students As suggested by the quality evaluation 2020, internationalisation is mapped in Ortrac under Core-values.	Ongoing	Ongoing	Programme directors, international committee and international coordinator.	- Balance in student exchange with partner universitites followed-up annually.	- Highlight the different perspectives and experiences that international students and teachers contribute with Open CIM seminars to promote student exchange and international engagement.



		- SDGs are reflected in course syllabi and mapped in Ortrac.					
Gender equality and equal treatment are integrated in the programme	All students and teachers are treated equally and with respect.	- Through training and assessing group communication from start of the programme Zero tolerance for harassement or other inequal treatment Emphisize a professional behavior in course syllabi and highlight the importance of equality and diversity in teams and in learning activities. These should be mapped in QPS in order to follow progression.	Ongoing	Ongoing	Programme directors, course managers, teachers, study councelor, students.	- Course evaluations, questionnaires (eg Studentbarometern), psychosocial safety inspection.	Student meetings and teacher meetings.
Relevant perspectives in sustainable development is promoted	The programme contributes to sustainable development of academia, working life, education, health and environment.	- The sustainabilty goals are considered in the educational and course curricula and tagged in QPS Programme representatives took part in the U21 meeting August 2023 with the focus Climate and Global HealthPlans for learning activity on Global Challenges,	Ongoing	Ongoing	Programme directors and course managers.	Course quality closures and Ortrac (QPS) tags.	- Workshop discussions with teachers and students Collaboration with University och Birmingham for Global Challenges course/module.



Adequate administrative support for students, teachers, course managers and programme management.	The administrative support facilitates students' learning, and allows teachers to focus on education rather than administration.	Discussion with administrative management to convey the programme's needs in terms of services and continuity.	Ongoing	Ongoing	Programme directors and programme administrators.	Regularly at programme management meetings and in dialogue with students and teachers.	Discussed at the programme board (PNM) and in quality dialogue.