

EMNERAPPORT – INSTITUTT FOR BIOMEDISIN

ANNUAL EVALUATION REPORT – DEPARTMENT OF BIOMEDICINE

Emnekode: <i>COURSE CODE:</i>	BMED326	Semester / år:	Spring semester 2026
Emnenavn: <i>COURSE NAME:</i>	<i>Protein structure determination, validation, and analysis</i>	SEMESTER / YEAR:	
Emneansvarlig: <i>COURSE COORDINATOR:</i>	Petri Kursula	Godkjent: <i>APPROVED:</i> (admin.)	Utdanningsleder IBM 08.06.2026
Rapporteringsdato: <i>DATE OF REPORT:</i>	Jun 5, 2026		

INNLEDNING / INTRODUCTION:

Kort beskrivelse av emnet, inkl. studieprogramtilhørighet. Kommentarer om evt. oppfølging av tidligere evalueringer.

SHORT COURSE DESCRIPTION, INCLUDING WHICH STUDENTS/CANDIDATES MAY ATTEND. COMMENTS TO CHANGES BASED ON PRIOR EVALUATIONS.

Protein structure determination, validation, and analysis (5 ECTS) is a course available for master students in biomedicine. The course is also offered to other master students who fulfill the pre-requirements given by a background in Biochemistry, Molecular Biology, Chemistry, Pharmacy or equivalent. The course was given for the first time spring semester 2026.

Molecular structural biology is a key field in understanding the structure and function of biological macromolecules and the molecular basis of disease. The course focus on common techniques in the field of structural biology, including X-ray crystallography, small-angle X-ray scattering, and cryo-EM, with a focus on structure determination and validation.

7 students were registered for the course this semester, all master students in biomedicine.

For full course description: <https://www4.uib.no/en/studies/courses/bmed326>

Annual course reports are made available in UiB's database "Quality Assurance Reports": <https://quality.app.uib.no/>

STATISTIKK / STATISTICS (admin.):

Antall vurderingsmeldte studenter: <i>NUMBER OF CANDIDATES REGISTERED FOR EXAMINATION:</i>	7	Antall studenter møtt til eksamen: <i>NUMBER OF CANDIDATES ATTENDED EXAMINATION:</i>	6
Karakter-skala <i>GRADING SCALE</i>	«Bestått/ikke bestått» <i>«PASS/FAIL»</i>	Bestått / PASS:	Ikke bestått / FAIL:
		6	-

KOMMENTARER TIL KARAKTERFORDELINGEN / COMMENTS TO THE STATISTICS:

Emnerapporten utarbeides når sensuren etter ordinær eksamen i emnet er klar. For muntlige eksamener er da resultatfordelingen endelig, men for skriftlige eksamener kan endelig resultatfordeling avvike noe om evt. klagebehandling ikke er fullført.

THIS REPORT IS PREPARED AFTER ORDINARY EXAMINATION. FOR ORAL EXAMS, THE RESULTS ARE FINAL, FOR WRITTEN EXAMS, THE FINAL GRADING DISTRIBUTION MAY DIFFER SLIGHTLY IF CANDIDATE COMPLAINTS/APPEALS HAVE NOT BEEN PROCESSED.

All students attending the exam passed.

SAMMENDRAG AV STUDENTENE SINE TILBAKEMELDINGER / SUMMARY OF EVALUATIONS GIVEN BY THE STUDENTS

Spørreundersøkelse via Mitt UiB, annen evaluering, tilbakemelding fra tillitsvalgte og/eller andre.

COURSE EVALUATION ON MITT UIB, OTHER EVALUATIONS, RESPONSES FROM THE STUDENT REPRESENTATIVES AND/OR OTHERS.

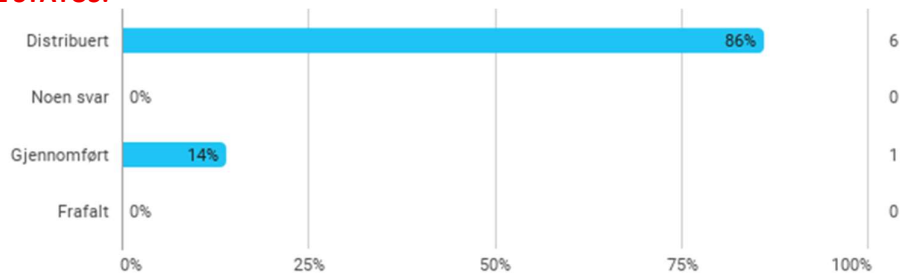
SurveyXact was used as the digital evaluation system. Some of the questions were Multiple Choice Questions (MCQ), while others opened up for the students to give their own opinion as written text.

The survey was set up as an anonym survey, and distributed to the 7 students registered as attendees by use of their E mail addresses at UiB the 19 May.

Reminders was sent the 21 and 22 May to those (resp. 7 and 7) that hadn't responded before. This year an announcement was also sent from the Course page at Mitt UiB on the morning of 26 May as a reminder of the survey. When the survey closed later the same day, responses from only 1 (14 %) student were registered.

The attendees were asked about the academic content, the organization and the educational level of the teaching, and asked to evaluate the total workload of the course. They were also asked to give their responses about the lectures and the practical part and structure of the course, the exam and their own learning outcomes. Finally, what they appreciate about the course, or could be improved.

OVERALL STATUS:



Distributed (but no responses): 6 (86 %) – Some answers: 0 – Completed: 1 (14 %)

RESULTS:

Only one student responded to the survey. A single response is not enough to represent the attendees' perspective.

EMNEANSVARLIG SIN EVALUERING OG VURDERING / EVALUATION AND COMMENTS BY COURSE COORDINATOR:

Faglæreres vurderinger av emnet. *TEACHER COMMENTS.*

Eksempel: Kommentarer om praktisk gjennomføring, undervisnings- og vurderingsformer, evt. endringer underveis, studieinformasjon på nett og Mitt UiB, litteraturtilgang, samt lokaler og utstyr.

EXAMPLE: COMMENTS ABOUT PRACTICAL IMPLEMENTATION, TEACHING AND ASSESSMENT METHODS, IF NECESSARY. FUTURE CHANGES/CHANGES IN PROGRESS, STUDY INFORMATION ON THE INTERNET AND MITT UIB, LITERATURE ACCESS, LOCALES AND EQUIPMENT.

The course consisted of 5 2-h lectures on key aspects of structural biology, as well as 4 2-h tutorials, which consisted of hands-on work and demonstrations of computationally more challenging aspects. The final 4-h session was used for student presentations, while each student had a complex structural biology publication to present to the others (calculated to take 10 h of their time).

Some of the lectures were set up in rooms without projector, which we could change rapidly but should be avoided. If there is a computer room available, perhaps that could be used for the practicals in the future, with pre-installed software; software installation seemed to be a challenge to several students on the course.

It is the first time the course was run, and the teacher was on 60% sick leave throughout the course, which of course affected the practical implementation and outcome slightly.

MÅL FOR NESTE UNDERVISNINGSPERIODE – FORBEDRINGSTILTAK / PLANNED CHANGES FOR THE NEXT TEACHING PERIOD – HOW TO BE BETTER:

It was the first edition of the course and many things can be improved from the teacher side. Things that worked or not have been noted down for next year (lectures and practicals).

It was surprising how passive the students were during practicals, despite detailed instructions on the software and tasks beforehand. Next time, some further control on the practicals will be needed, in a more school-like setting, or perhaps compulsory delivery of results on MittUiB.

The whole course, especially with the tight schedule we had, was a bit much to be doing completely alone. For some lectures or practicals, assistance might be wished for – or some practicals should be set up as partially home work between sessions.

FS – resultatfordeling (graf) / FS – DISTRIBUTION OF GRADING (GRAPH):



FS580.001 Distribution of results

Exam: BMED326 0 Alle 2026 VÅR

Protein structure determination, validation, and analysis - Alle vurderingskombinasjoner 5,0sp

Grading scale: Letter grades - Passed

	Total
Number of candidates (registered):	7
Number appearing at the examination:	6
Number of passes:	6
Number of failures:	0 0%
Number of withdrawals during examination	0
Mean grade:	.00
Number presenting medical certificates:	0
Number of withdrawals before examination	0