

Bachelor's Programme in Science Preliminary Teaching Programme 2026-2027

Code	Course unit name	Scope (cr)	Teaching periods	Teaching language(s)	Mode of teaching	Open to exchange students	Open to students of other degree programmes	Open university teaching
BS4001A	Introduction to Modern Science	2 cr	1	English	Contact teaching	No	No	Course unit is only for degree students.
BS4001B	Modern Science Working Groups	5 cr	2	English	Contact teaching	No	No	Course unit is only for degree students.
BS4005	Seminar	4 cr	lectures 1, seminar presentation 2 or 4	English	Contact teaching	No	No	Course unit is only for degree students.
MATH&STAT	-	-	-	-	-	-	-	-
BSMA1002	Calculus IA: Limits and differentiation	5 cr	1	English	Blended teaching (includes both contact and distance teaching)	Yes	Yes	Course unit is only for degree students.
BSMA1003	Calculus IB: Integration	5 cr	2	English	Blended teaching (includes both contact and distance teaching)	Yes	Yes	Course unit is only for degree students.
BSMA1004	Advanced calculus	5 cr	3	English	Blended teaching (includes both contact and distance teaching)	Yes	Yes	Course unit is only for degree students.
BSMA1001	Linear algebra and complex numbers	5 cr	3	English	Contact teaching	Yes	No	Course unit is both for degree students and open university studies, fee 15€/credit point, quota 20 students
BSMA1006	Probability Calculus I	5 cr	3	English	Contact teaching	Yes	Yes	Course unit is both for degree students and open university studies, fee 15€/credit point, quota 10 students
BSMA2001	Linear algebra and matrices II	5 cr	4	English	Contact teaching	Yes	Yes	Course unit is only for degree students.
BSMA2007	Differential equations	5 cr	4	English	Contact teaching	Yes	Yes	Course unit is both for degree students and open university studies, fee 30€/credit point, quota 10 students
BSMA2010	Series	5 cr	4	English	Blended teaching (includes both contact and distance teaching)	Yes	Yes	Course unit is only for degree students.
BSMA2011	Vector Analysis I	5 cr	1	English	Contact teaching	Yes	No	Course unit is only for degree students.
BSMA2012	Vector Analysis II	5 cr	2	English	Contact teaching	Yes	No	Course unit is only for degree students.
CS&DS	-	-	-	-	-	-	-	-
BSCS1001	Introduction to Programming	5 cr	Lectures in period 1, other times on own pace	English	Distance teaching (time-bound) or online teaching	Yes	Yes	Course unit is only for degree students.
BSCS1001	Introduction to Programming	5 cr	periods 1-4 and summer 2027	English	Online teaching	Yes	Yes	Course unit is both for degree students and open university studies, MOOC
BSCS1002	Advanced Course in Programming	5 cr	Lectures in period 2, other times on own pace	English	Distance teaching (time-bound) or online teaching	Yes	Yes	Course unit is both for degree students and open university studies, MOOC
BSCS1002	Advanced Course in Programming	5 cr	periods 1-4 and summer 2027	English	Online teaching	Yes	Yes	Course unit is both for degree students and open university studies.
BSCS1007	Foundations of Artificial Intelligence	5 cr	3	English	Contact teaching	No	Yes	Course unit is both for degree students and open university studies, fee 15€/credit point, quota 10 students
BSCS1005	Introduction to Databases	5 cr	1	English	Blended teaching (includes both contact and distance teaching)	Yes	Yes	Course unit is both for degree students and open university studies, fee 15€/credit point, quota 17 students
BSCS10031	Data structures and Algorithms I	5 cr	1	English	Blended teaching (includes examinarium exam)	Yes	Yes	Course unit is both for degree students and open university studies, fee 15€/credit point, quota 35 students

Bachelor's Programme in Science Preliminary Teaching Programme 2026-2027

BSCS2006	Data structures and Algorithms II	5 cr	2	English	Blended teaching (includes examinarium exam)	Yes	Yes	Course unit is both for degree students and open university studies, fee 30€/credit point, quota 30 students
BSCS1006	Computer and Internet	5 cr	3-4	English	Contact teaching	Yes	Yes	Course unit is both for degree students and open university studies, fee 30€/credit point, quota 10 students
BSCS2004	Models of Computation	5 cr	4	English	Contact teaching	Yes	Yes	Course unit is both for degree students and open university studies, fee 30€/credit point, quota 10 students
BSCS2011	Programming for Performance	5 cr	4	English	Contact teaching	Yes	Yes	Course unit is only for degree students.
BSCS4006	Bachelor's Thesis, study track in Computer and Data Science	6 cr	1-2	English	Contact teaching	No	No	Course unit is only for degree students.
BSCS4006	Bachelor's Thesis, study track in Computer and Data Science	6 cr	4-3	English	Contact teaching	No	No	Course unit is only for degree students.
PHYSICS	-	-	-	-	-	-	-	-
BSPH1001	Interactions and Bodies	5 cr	3	English	Contact teaching	Yes	Yes	Course unit is both for degree students and open university studies, fee 15€/credit point, quota 15 students
BSPH1002	Matter and Interactions	5 cr	4	English	Contact teaching	Yes	Yes	Course unit is both for degree students and open university studies, fee 15€/credit point, quota 15 students
BSPH1003	Electromagnetism	5 cr	1	English	Contact teaching	Yes	Yes	Course unit is both for degree students and open university studies, fee 15€/credit point, quota 10 students
BSPH1004	Radiation Fields and Photons	5 cr	2	English	Contact teaching	Yes	Yes	Course unit is both for degree students and open university studies, fee 15€/credit point, quota 10 students
BSPH2008	Introduction to Relativity Theory	5 cr	4	English	Contact teaching	No	Yes	Course unit is both for degree students and open university studies, fee 30€/credit point, quota 10 students
BSPH2001	Basics of thermophysics	5 cr	3	English	Contact teaching	Yes	Yes	Course unit is only for degree students.
BSPH2002	Thermodynamic potentials	5 cr	4	English	Contact teaching	Yes	Yes	Course unit is only for degree students.
BSPH2003	Physical basis of computing	5 cr	2	English	Blended teaching (includes both contact and distance teaching)	Yes	Yes	Course unit is only for degree students.
BSPH2004	Introduction to quantum physics	5 cr	2	English	Contact teaching	Yes	Yes	Course unit is only for degree students.
BSPH2005	Applications of quantum physics I: atoms and molecules	5 cr	3	English	Blended teaching (includes both contact and distance teaching)	Yes	Yes	Course unit is only for degree students.
BSPH2006	Applications of quantum physics II: solid state and elementary particles	5 cr	4	English	Contact teaching	Yes	Yes	Course unit is only for degree students.
BSPH2009	Basics of Astronomy I	5 cr	1	English	Contact teaching	yes	No	Course unit is only for degree students.
BSPH2010	Basics of Astronomy I	5 cr	2	English	Contact teaching	yes	No	Course unit is only for degree students.
BSPH2012	Statistical Mechanics	5 cr	4	English	Contact teaching	yes	No	Course unit is only for degree students.
BSPH2013	Analytical Mechanics	5 cr	2	English	Contact teaching	yes	No	Course unit is only for degree students.
BSPH4001	Sustainability in Space	2 cr	periods 1-4 and summer 2027	English	Online teaching	Yes	Yes	Introductory course. Course unit is both for degree students and open university studies. Free
CHEMISTRY	-	-	-	-	-	-	-	-
BSCH1001	Atoms, Molecules and Interactions	5 cr	3	English	Contact teaching	Yes	Yes	Course unit is both for degree students and open university studies, fee 15€/credit point, quota 10 students
BSCH1002	Energy, Reactivity and Chemical Equilibrium	5 cr	4	English	Contact teaching	Yes	Yes	Course unit is both for degree students and open university studies, fee 15€/credit point, quota 10 students
BSCH1003	Organic Chemistry 1	5 cr	3	English	Contact teaching	Yes	Yes	Course unit is both for degree students and open university studies, fee 15€/credit point, quota 10 students
BSCH1004	Inorganic Chemistry	5 cr	2	English	Contact teaching	Yes	Yes	Course unit is both for degree students and open university studies, fee 15€/credit point, quota 10 students
BSCH2001	Organic Chemistry 2	5 cr	2	English	Blended teaching (includes both contact and distance teaching)	Yes	Yes	Course unit is only for degree students.

Bachelor's Programme in Science Preliminary Teaching Programme 2026-2027

BSCH2002	Resolving structure of molecules	5 cr	1	English	Contact teaching	Yes	Yes	Course unit is only for degree students.
BSCH2010	Physical Chemistry	5 cr	4	English	Contact teaching	Yes	No	Course unit is only for degree students.
STUDY MODULES		-	-	-	-	-	-	-
BSCH1000	Chemistry, basic studies	25 cr	1-4	English	Contact teaching	Yes	Yes	Courses included to the study module are offered at open university
BSPH1000	Physics, basic studies	25 cr	1-4	English	Contact teaching	Yes	Yes	Courses included to the study module are offered at open university
BSCS1100	Computer and Data Science, basic studies	25 cr	1-4	English	Contact teaching	Yes	Yes	Courses included to the study module are offered at open university