

B.Sc. in MEDICINAL CHEMISTRY

Specialization: Organic Medicinal Chemistry

Semester

1	Inorganic Chemistry I: General Chemistry (10 ECTS)		Introduction to Medicinal Chemistry (5 ECTS)	Calculus Beta (10 ECTS)	
			Philosophy and Ethics of Science: Chemistry and Medicinal Chemistry (5 ECTS)		
2	Organic Chemistry I: Functional Groups and Reactions (10 ECTS)		Molecular biology and cell biology (10 ECTS) – New course 2026	Mechanics and Modern Physics for Chemists (10 ECTS)	
3	Physical Chemistry I: Thermodynamics and Statistical Mechanics (10 ECTS)		Structural Biology (10 ECTS) – New course title 2026	Structural Chemistry I (5 ECTS)	Linear Transformations (5 ECTS)
4	Modelling I: Chemical Bonding and Spectroscopy (10 ECTS)		Organic Chemistry II: Reaction Mechanisms (10 ECTS)	Structural Chemistry IIa: Spectroscopy in Organic Chemistry (5 ECTS)	Structural Chemistry IIb: Biophysical Chemistry (see note *) or Structural Chemistry IIc: Chemical Crystallography or Linear Algebra Beta (5 ECTS)
5	Statistical Data Analysis using Python (5 ECTS)	Analytical Chemistry (5 ECTS)	Organic Chemistry IIIa: Experimental Organic Synthesis (10 ECTS)	Human Physiology (10 ECTS)	
6	Bachelor Project in Chemistry (10 ECTS)		Modelling IIa: Drug Design and Bioinformatics (10 ECTS)	Medicinal Chemistry I: Drug Discovery and Drug Delivery (10 ECTS)	

Note:

(*) If you want teaching qualifications in Biotechnology A and Chemistry A (Danish high schools), you must choose Structural Chemistry IIb: Biophysical Chemistry on semester 4 (only relevant for Danish speaking)

Mandatory courses (150 ECTS)

Specialization courses (30 ECTS)