

# SCHOOL OF SCIENCES AND ENGINEERING

## DEPARTMENT OF CHEMISTRY

### UNDERGRADUATE COURSES

All courses have 6 ECTS, apart from the ones that mention otherwise

<b><u>MANDATORY COURSES</u></b>			
<b><u>WINTER semester</u></b>		<b><u>SPRING semester</u></b>	
<b>A'</b>		<b>B'</b>	
XHM- 043	GENERAL CHEMISTRY	XHM-012	MATHEMATICS II
XHM- 011	MATHEMATICS I	XHM-201	ORGANIC CHEMISTRY I
XHM- 044	QUANTITATIVE AND QUALITATIVE ANALYSIS	XHM-017	PHYSICS II
XHM- 013	PHYSICS I	XHM-112	GENERAL CHEMISTRY <b>LABORATORY II</b>
XHM- 111	GENERAL CHEMISTRY <b>LABORATORY I</b>	XHM-046	INTRODUCTION TO BIOLOGY
XHM- 018	PRINCIPLES AND APPLICATIONS OF COMPUTERS (3 ECTS)	XHM-053	ENGLISH II (3 ECTS)
XHM- 052	ENGLISH PREPARATIVE I (3 ECTS)	XHM-019	COMPUTERS IN CHEMISTRY (3 ECTS)
<b>C'</b>		<b>D'</b>	
XHM- 301	ANALYTICAL CHEMISTRY I	XHM-408	ANALYTICAL CHEMISTRY II
XHM- 211	ORGANIC CHEMISTRY <b>LABORATORY I</b>	XHM-212	ORGANIC CHEMISTRY <b>LABORATORY II</b>
XHM- 202	ORGANIC CHEMISTRY II	XHM-401	INORGANIC CHEMISTRY I
XHM- 048	PHYSICAL CHEMISTRY I (SPECTROSCOPY)	XHM-049	PHYSICAL CHEMISTRY II
XHM- 311	PHYSICAL CHEMISTRY <b>LABORATORY I</b>	XHM-413	ANALYTICAL CHEMISTRY <b>LABORATORY I</b>
<b>E'</b>		<b>F'</b>	
XHM- 028	BIOCHEMISTRY I	XHM-030	BIOCHEMISTRY II
XHM- 307	ORGANIC CHEMISTRY III	XHM-405	ENVIRONMENTAL CHEMISTRY
XHM- 402	INORGANIC CHEMISTRY II	XHM-444	PHYSICAL CHEMISTRY <b>LABORATORY II</b>
XHM- 411	INORGANIC CHEMISTRY <b>LABORATORY I</b>	XHM-412	INORGANIC CHEMISTRY <b>LABORATORY II</b>
XHM- 414	ANALYTICAL CHEMISTRY <b>LABORATORY II</b>	XHM-501	BIOCHEMISTRY <b>LABORATORY</b>
<b><u>ELECTIVE COURSES</u></b>			
XHM- 056	CHEMISTRY OF ADVANCED MATERIALS	XHM-068	FOOD ANALYSIS TECHNIQUES
XHM- 057	INORGANIC BIOMATERIALS	XHM-121	POLYMER SCIENCE
XHM- 058	<b>SOFT CONDENSED MATTER</b>	XHM-124	<b>MEDICINAL CHEMISTRY</b>
XHM- 060	ENZYME BIOTECHNOLOGY	XHM-151	BIOCATALYSIS IN ORGANIC SYNTHESIS
XHM- 120	ADVANCED BIOCHEMISTRY <b>LABORATORY</b>	XHM-160	ADVANCED FOOD CHEMISTRY
XHM-160	<b>CHEMISTRY &amp; CURRENT TOPICS ON NUTRITION</b>	XHM-162	METAL IONS IN MEDICINE
XHM- 161	COMPUTATIONAL CHEMISTRY – APPLICATIONS ON MOLECULES, MATERIALS, ENVIRONMENT I	XHM-164	COMPUTATIONAL CHEMISTRY – APPLICATIONS ON MOLECULES, MATERIALS, ENVIRONMENT II
XHM- 350	RESEARCH PROJECT	XHM-165	ANALYTICAL BIOCHEMISTRY
XHM- 404	ENVIRONMENTAL CHEMISTRY II (ATMOSPHERIC CHEMISTRY)	XHM- 350	RESEARCH PROJECT
XHM- 407	BACHELOR THESIS (12 ECTS)	XHM-407	BACHELOR THESIS (12 ECTS)
XHM- 421	BIOINORGANIC CHEMISTRY	XHM-416	<b>COMPUTATIONAL ENVIRONMENTAL CHEMISTRY</b>
XHM-510	LABORATORY AND CHEMICAL SAFETY	XHM-425	LASER LABORATORIES – APPLICATIONS IN CHEMISTRY
XHM- 515	FOOD CHEMISTRY	XHM-516	<b>STRUCTURE DETERMINATION FOR ORGANIC COMPOUNDS BY SPECTROSCOPY</b>