

FACULTY OF HEALTH SCIENCES

BACHELOR'S DEGREE PROGRAMMES**Bachelor of Science****• Biomedical Sciences**

Year I		Credits
<i>Compulsory Major</i>		
HSCI1000	General Chemistry	3
HSCI1001	General Chemistry Lab	2
HSCI1002	Introduction to Biological Sciences	3
HSCI1003	General and Clinical Biochemistry	3
HSCI1004	Biochemistry Lab	1.5
<i>Languages and Skills*</i>		
EELC1001	Interactive English I	3
EELC1002	Interactive English II	3
<i>Community and Peer Education</i>		
CPED1000	Residential College Experiential Learning	1
CPED1001	Physical Education I	0.5
CPED1002	Physical Education II	0.5
CPED1003	Communication Skills and Leadership	1
<i>General Education</i>		
GEST1003	Quantitative Reasoning for Health Sciences (Area of Science & Technology)	3
GELH1000	Chinese Language and Culture (Area of Literature & Humanities)	3
<i>Free Elective</i>		3
Total Credits:		30.5

Year II		Credits
<i>Compulsory Major</i>		
HSCI2000	Cell and Molecular Biology	3
HSCI2001	Cell and Molecular Biology Lab	1.5
HSCI2002	General and Clinical Microbiology	3
HSCI2003	Microbiology Lab	1.5
HSCI2004	Genetics and Epigenetics	3
HSCI2005	Biology of Development and Aging	3
HSCI2006	Physiology and Pathophysiology	3
<i>Languages and Skills*</i>		
EELC1003	Academic English	3
1 Language and Skills course selected from the following:		3
CHLL1000	University Chinese	
PORT1000	Portuguese Language I - Introductory Portuguese	
<i>General Education</i>		
	1 course from area of Global Awareness	3
	1 course from area of Science & Technology	3
	1 course from area of Literature & Humanities	3
Total Credits:		33
Year III		Credits
<i>Compulsory Major</i>		
HSCI3000	Neuroscience and Neurodegenerative Diseases	3
HSCI3001	Endocrinology and Metabolic Diseases	3
HSCI3002	Immunology and Infectious Diseases	3
HSCI3003	Biostatistics and Experimental Design	3
HSCI3004	Genomics and Bioinformatics	3
HSCI3005	Genetics, Genomics and Bioinformatics Lab	1.5
<i>Languages and Skills*</i>		
CISC1000	Information Technology Fundamentals and Practices	3
<i>General Education</i>		
GEA1000	Macao and Chinese Civilization (Area of Global Awareness)	3
GESB1000	Ethics, Values, Law and Society (Area of Society & Behaviour)	3
	1 course from area of Society & Behaviour	3
<i>Free Elective</i>		3
Total Credits:		31.5

Year IV		Credits
<u>Specialization in Medicinal Science</u>		
<i>Compulsory Major</i>		
HSCI4000	Graduation Project I	3
HSCI4001	Cancer Biology and Therapy	3
HSCI4002	Stem Cell Biology and Regenerative Medicine	3
HSCI4005	Graduation Project II	3
HSCI4006	Public Health	3
HSCI4007	Translational Medicine	3
<i>Required Elective</i>		
2 courses selected from the following:		6
HSCI4003	Pharmacology and Chemical Biology	
HSCI4004	Drug Discovery and Development	
HSCI4008	Introduction to Pharmacy and Pharmaceutical Analysis	
HSCI4009	Toxicology	
<i>Free Elective</i>		
		3
<u>Specialization in Pharmaceutical Science and Technology</u>		
<i>Compulsory Major</i>		
HSCI4000	Graduation Project I	3
HSCI4003	Pharmacology and Chemical Biology	3
HSCI4004	Drug Discovery and Development	3
HSCI4005	Graduation Project II	3
HSCI4008	Introduction to Pharmacy and Pharmaceutical Analysis	3
HSCI4009	Toxicology	3
<i>Required Elective</i>		
2 courses selected from the following:		6
HSCI4001	Cancer Biology and Therapy	
HSCI4002	Stem Cell Biology and Regenerative Medicine	
HSCI4006	Public Health	
HSCI4007	Translational Medicine	
<i>Free Elective</i>		
		3
Total Credits:		27

*Students who test out of some or all of the Languages and Skills course(s) are required to make up the credits by taking additional Free Elective(s). Please visit the Registry's webpage (<https://reg.um.edu.mo/current-students/curriculum-model/ug-curriculum-model/languages-and-skills/>) for more details about the test out criteria.