

FACULTY OF HEALTH SCIENCES  
Bachelor's Degree Programmes

**Bachelor of Science**  
• **Biomedical Sciences**

<b>Year I</b>	<b>Credits</b>
<b>Compulsory Major</b>	
APAC1004 General Physics	4
APAC1005 Physics Lab	1
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
HSCI1005 Organic Chemistry	4
HSCI1006 Organic Chemistry Lab	2
MATH1007 Introduction to Probability	1
<b>Languages and Skills*</b>	
English Language Courses or Free Elective	6
<b>Community and Peer Education</b>	
	3
<b>General Education</b>	
GELH1000 Chinese Language and Culture (Area of Literature & Humanities)	3
GEST1003 Quantitative Reasoning for Health Sciences (Area of Science & Technology)	3
<b>Total Credits:</b>	<b>39.5</b>

<b>Year II</b>		<b>Credits</b>
<b>Compulsory Major</b>		
CISC1001	Programming Science	3
CISC1004	Introduction to Computer Science	3
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
HSCI2006	Physiology and Pathophysiology	3
HSCI2007	Physiology Lab	1.5
HSCI2008	Human Anatomy	3
HSCI3002	Immunology and Infectious Diseases	3
HSCI3003	Biostatistics and Experimental Design	3
<b>Languages and Skills*</b>		
	English Language Courses or Free Elective	3
	Chinese/Portuguese Language Course or Free Elective	3
<b>General Education</b>		
	1 General Education Course	3
<b>Total Credits:</b>		<b>40.5</b>

<b>Year III</b>		<b>Credits</b>
<b>Compulsory Major</b>		
HSCI2005	Biology of Development and Aging	3
HSCI3000	Neuroscience and Neurodegenerative Diseases	3
HSCI3001	Endocrinology and Metabolic Diseases	3
HSCI3004	Genomics and Bioinformatics	3
HSCI3005	Genetics, Genomics and Bioinformatics Lab	1.5
<b>General Education</b>		
GEA1000	Macao and Chinese Civilization (Area of Global Awareness)	3
GESB1000	Ethics, Values, Law and Society (Area of Society & Behaviour)	3
	2 General Education courses	6
<b>Languages and Skills*</b>		
CISC1000	Information Technology Fundamentals and Practices	3
<b>Total Credits:</b>		<b>28.5</b>

<b>Year IV</b>		<b>Credits</b>
<b>Compulsory Major</b>		
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
<b>Required Elective</b>		
<i>Students are required to take 1 course from the following:</i>		3
HSCI2009	Pharmacology	
HSCI4004	Drug Discovery and Development	
HSCI4009	Toxicology	
<b>General Education</b>		
	1 General Education Course	3
<b>Total Credits:</b>		<b>24</b>
<b>GRAND TOTAL:</b>		<b>132.5</b>

\*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.