

FACULTY OF HEALTH SCIENCES  
Bachelor's Degree Programmes

**Bachelor of Science**  
• **Pharmaceutical Sciences and Technology**

Year I		Credits
<b>Compulsory Major</b>		
APAC1004	General Physics	4
APAC1005	Physics Lab	1
CISC1004	Introduction to Computer Science	3
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>General Education</b>		
GEST1003	Quantitative Reasoning for Health Sciences (Area of Science & Technology)	3
<b>Community and Peer Education</b>		
		2
<b>Total Credits:</b>		<b>38.5</b>

<b>Year II</b>		<b>Credits</b>
<b>Compulsory Major</b>		
APAC3005	Physical Chemistry	3
CISC1001	Programming Science	3
HSCI2002	General and Clinical Microbiology	3
HSCI2003	Microbiology Lab	1.5
HSCI2006	Physiology and Pathophysiology	3
HSCI2008	Human Anatomy	3
HSCI2009	Pharmacology	3
HSCI2010	Pharmacology Lab	1.5
HSCI2011	Analytical Chemistry	3
HSCI2012	Analytical Chemistry Lab	2
HSCI2013	Medicinal Chemistry	3
HSCI3003	Biostatistics and Experimental Design	3
<b>Languages and Skills*</b>		
	English Language Courses or Free Elective	3
<b>Community and Peer Education</b>		1
<b>Total Credits:</b>		<b>36</b>

<b>Year III</b>		<b>Credits</b>
<b>Compulsory Major</b>		
HSCI3008	Biopharmaceutics and Pharmacokinetics	3
HSCI3009	Chinese Medicine	3
HSCI3010	Pharmaceutics	3
HSCI3011	Pharmaceutics Lab	1.5
HSCI3012	Pharmaceutical Analysis	3
HSCI3013	Pharmaceutical Analysis Lab	1.5
HSCI3014	Pharmacy Administration	3
<b>Required Elective</b>		3
<b>Languages and Skills*</b>		
CISC1000	Information Technology Fundamentals and Practices	3
<b>General Education</b>		
GEGA1000	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 and Behaviour	3
	1 course from area of Science and Technology	3
<b>Total Credits:</b>		<b>36</b>

Year IV		Credits
<b>Compulsory Major</b>		
HSCI4000	Graduation Project I	3
HSCI4005	Graduation Project II	3
HSCI4009	Toxicology	3
<b>Required Elective</b>		6
<b>Languages and Skills*</b>		
	Chinese/Portuguese Language Course or Free Elective	3
<b>General Education</b>		
GELH1000	Chinese Language and Culture (Area of Literature & Humanities)	3
	1 course from area of Literature and Humanities	3
	1 course from area of Global Awareness	3
<b>Total Credits:</b>		<b>27</b>
<b>GRAND TOTAL:</b>		<b>137.5</b>

List of Required Elective Courses:		Credits
HSCI3007	Biomedical Materials	3
HSCI3015	Phytochemistry	3
HSCI4004	Drug Discovery and Development	3
HSCI4006	Public Health	3
HSCI4007	Translational Medicine	3
HSCI4010	Pharmaceutical Economics and Policy	3
HSCI4011	Pharmacoinformatics	3

\*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.