



JOSE MARIA COLLEGE  
FOUNDATION, INC.  
Philippine-Japan Friendship Highway, Sasa, Davao City

**BACHELOR OF SCIENCE IN BIOLOGY**

Effective AY 2023-2024  
Based on CMO No. 49, series of 2017

FIRST YEAR													
Code	Pre-Req	First Semester	Description	Units			Code	Pre-Req	Second Semester	Description	Units		
				Lec	Lab	Total					Lec	Lab	Total
BIO 1	none		General Botany	3	2	5	BIO 4	BIO 3	Chemical Biology II: Analytical Methods for Biology	2	1	3	
BIO 2	none		General Zoology	3	2	5	BIO 5	BIO 1, BIO 2	Systematics	3	2	5	
BIO 3	none		Chemical Biology I: Organic Molecules	2	1	3	BIO 6	none	General Ecology	3	2	5	
GE 2	none		Mathematics in the Modern World	3	-	3	GE 1	none	Understanding the Self	3	-	3	
GE 3	none		Purposive Communication	3	-	3	GE 7	none	Science, Technology and Society	3	-	3	
SF 1	none		Student Values Formation	-	1	1	GE 10	none	Environmental Science	3	-	3	
PE 1	none		Physical Education 1	2	-	2	SF 1	none	Personality Development	-	1	1	
NSTP 1	none		National Service Training Program 1	3	-	3	PE 2	PE 1	Physical Education 2	2	-	2	
				<b>19</b>	<b>6</b>	<b>25</b>	NSTP 2	NSTP 1	National Service Training Program 2	3	-	3	
										<b>22</b>	<b>6</b>	<b>28</b>	

SECOND YEAR													
Code	Pre-Req	First Semester	Description	Units			Code	Pre-Req	Second Semester	Description	Units		
				Lec	Lab	Total					Lec	Lab	Total
BIO 7	BIO 4		Chemical Biology III: Biomolecules	3	2	5	BIO 11	none	Biostatistics and Epidemiology (Statistical Biology)	2	1	3	
BIO 8	BIO 5		Cell and Molecular Biology	3	2	5	BIO 12	BIO 8, BIO 9, BIO 10	Evolutionary Biology	3	2	5	
BIO 9	BIO 5		General Microbiology	3	2	5	BIO 13	BIO 7, BIO 8, BIO 9	Microbial Physiology	2	-	2	
BIO 10	BIO 5		General Physiology	3	2	5	BIO 14	BIO 7, BIO 8	Human Histology	2	1	3	
GE 5	none		The Contemporary World	3	-	3	GE 4	none	Readings in Philippine History	3	-	3	
SF 3	SF 1		Essential Study Skills	-	1	1	GE 6	none	Art Appreciation	3	-	3	
PE 3	PE 1		Physical Education 3	2	-	2	GE 12	none	Great Books	3	-	3	
				<b>17</b>	<b>9</b>	<b>26</b>	SF 4	SF 1	Stress Management	-	1	1	
							PE 4	PE 1	Physical Education 4	2	-	2	
										<b>20</b>	<b>5</b>	<b>25</b>	

THIRD YEAR													
Code	Pre-Req	First Semester	Description	Units			Code	Pre-Req	Second Semester	Description	Units		
				Lec	Lab	Total					Lec	Lab	Total
BIO 15	BIO 8, BIO 9, BIO 10, BIO 14		Human Anatomy & Physiology with Pathophysiology	3	2	5	BIO 19	BIO 14, BIO 15, BIO 17, BIO 18	Histopathologic & Cytologic Techniques	3	1	4	
BIO 16	BIO 10, BIO 12, BIO 14		Developmental Biology	3	2	5	BIO 20	BIO 15	Biophysics	2	2	4	
BIO 17	BIO 8, BIO 9, BIO 10, BIO 13, BIO 14		Medical Microbiology	3	2	5	BIO 21	BIO 8, BIO 9, BIO 10, BIO 13, BIO 14	General Virology	2	-	2	
BIO 18	BIO 8, BIO 9, BIO 10, BIO 13, BIO 14		Clinical Parasitology	3	1	4	GE 8	none	Ethics	3	-	3	
GE 9	none		Life and Works of Rizal	3	-	3	GE 11	none	The Entrepreneurial Mind	3	-	3	
SF 5	SF 1		Elements of Self-Management	-	1	1	BIO ELE 1A/1B	All 1st Year & 2nd Year BIO Subjects	Elective 1	2	1	3	
BIO RES 1	All 1st Year & 2nd Year BIO Subjects		Research 1: Research Methods & Proposal	3	-	3	SF 6	SF 1	Career Planning and Selection	-	1	1	
				<b>18</b>	<b>8</b>	<b>26</b>				<b>15</b>	<b>5</b>	<b>20</b>	

FOURTH YEAR													
Code	Pre-Req	First Semester	Description	Units			Code	Pre-Req	Second Semester	Description	Units		
				Lec	Lab	Total					Lec	Lab	Total
BIO 22	BIO 15, BIO 17, BIO 18, BIO 21		Food Microbiology	3	2	5	BIO PRAC	All Subjects	Practicum/Internship	-	6	6	
BIO 23	BIO 15, BIO 16		Genetics	3	2	5							
BIO ELE 2A/2B	All 1st, 2nd and 3rd Year BIO Subjects		Elective 2	2	1	3							
BIO RES 2	BIO RES 1		Research 2: Research Writing & Presentation	2	1	3							
				<b>10</b>	<b>6</b>	<b>13</b>							

ELECTIVE 1 COURSES		
BIO ELE 1A	All 1st Year & 2nd Year BIO Subjects	Pharmacology
BIO ELE 1B	All 1st Year & 2nd Year BIO Subjects	Microbial Ecology

ELECTIVE 2 COURSES		
BIO ELE 2A	All 1st, 2nd and 3rd Year BIO Subjects	Practice of Medicine & Emergency Medical Services
BIO ELE 2B	All 1st, 2nd and 3rd Year BIO Subjects	Industrial and Applied Microbiology

DR. RAYMOND G. LIBONGCOGON  
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