

MARIAN UNIVERSITY

Indianapolis®

B.S. in Biology

TRANSFORMATIONAL JOURNEY PROGRAM (TJP)

First Year Experience (3 credits)

___ FYS110 First Year Seminar

Faith and Ethics (9 credits)

___ THL105 Introduction to Theology

___ PHL130 Human Nature & Person

___ Second THL*

Scientific Problem Solving (4-5 credits)

___ BIO, CHE, ENV or PHY with lab*

Quantitative Problem Solving (3-4 credits)

___ Mathematics (MAT 145 or place 215+)

Civics Problem Solving (3-9 credits)

One of the following courses:

___ ECN200 Introductory Economics

___ EGR317 Engineering Economics

___ HIS100 Civics and Democratic Engagement

Communication (6 credits)

___ ENG112 Writing and Community

___ COM101 Public Speaking

Cultural and Global Awareness (6 credits)

___ World Language (determined by placement)

One of the following courses:

___ GLS101 Global Perspectives

___ GLS220 Global Humanities

Health and Well-Being (6 credits)

___ HWB110 Holistic Health: Mind, Body, and Spirit

One of the following courses:

___ PSY101 General Psychology

___ PSY220 Human Growth and Development

___ SOC101 Introduction to Sociology

Broad Integrative Knowledge Outside Major**

a. Completion of a minor

b. Completion of a second major

c. Completion of a Pathway

*Please refer to catalog or MUHUB Progress tab for a complete list of courses that meet these requirements.

**Please refer to catalog or MUHUB Progress tab for a description of acceptable major/minor options.

BIOLOGY MAJOR REQUIREMENT (60 Total hours in Science)

Core Courses

___ BIO210/211L Principles of Biology I 4

___ BIO212/212L Principles of Biology II 4

___ BIO220/L Data Skills of Biologists 4

___ BIO291 Biology Career Seminar 1

___ Cellular Level Biology 4

(BIO307, 315 or 340)

___ Organismal Level Biology 3-5

(BIO323, 329, 350, 373, or 444)

___ Ecosystem Level Biology 3-4

(BIO320, 321, 327, or 363)

___ CHE140/1 General Chemistry I 4

___ CHE142/3 General Chemistry II 4

___ CHE305 Organic Chemistry I 4

___ PHY110 General Physics I 4

At least 22 total BIO credits above 300 level

___ BIO 300-level elective

___ BIO 300-level elective

___ BIO 300-level elective

___ BIO 300-level elective

And

___ BIO, CHE, MAT, ENV, ESS, PBH, or PHY 200 level 5

___ BIO, CHE, MAT, ENV, ESS, PBH, or PHY 300 level 4

Total Earned Science Hours (60 required)_____

PLEASE NOTE: MANY PROFESSIONAL PATHS REQUIRE SPECIFIC COURSEWORK (SEE BELOW). YOUR ADVISOR WILL BE ABLE TO RECOMMEND APPROPRIATE ELECTIVES.

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Freshman Year							
Fall Semester				Spring Semester			
Requirement Category	Course	Credit Hours	Minimum Grade*	Requirement Category	Course	Credit Hours	Minimum Grade*
Major	BIO 210/211	4	C	Major	BIO212/213	4	C
Major	CHE 140/141L	4		Major	CHE 142/143L	4	
TJP	FYS 110	3		TJP	ENG 112	3	
TJP	(Math)	3		TJP	HWB 110	3	
				TJP	(Foreign language)	3	
Semester Hours	14			Semester Hours	17		
Cumulative Hours	14			Cumulative Hours	31		
Sophomore Year							
Fall Semester				Spring Semester			
Requirement Category	Course	Credit Hours	Minimum Grade*	Requirement Category	Course	Credit Hours	Minimum Grade*
Major	BIO 220/L	4	C	Major (Molecular)	BIO Molecular	4	C
Major	BIO291	1	C	Minor	Minor	3	
Major	CHE 305/L	4		TJP	TJP	3	
TJP	TJP	3		TJP	TJP	3	
Minor	Minor	3		Elective	Elective	3	
Semester Hours	15			Semester Hours	16		
Cumulative Hours	46			Cumulative Hours	62		
Junior Year							
Fall Semester				Spring Semester			
Requirement Category	Course	Credit Hours	Minimum Grade*	Requirement Category	Course	Credit Hours	Minimum Grade*
Major (Elec)	BIO 3/4xx Elective	4	C	Major (Organismal)	BIO Organismal	4	C
Major (Elec)	BIO 3/4xx Elective	4	C	Major (Elec)	BIO 3/4xx Elec	4	C
Major	PHY 110	4		Minor	Minor	3	
TJP	TJP	3		Elective	Elective	3	
Elective	Elective	2		Elective	Elective	3	
Semester Hours	17			Semester Hours	17		
Cumulative Hours	79			Cumulative Hours	96		
Senior Year							
Fall Semester				Spring Semester			
Requirement Category	Course	Credit Hours	Minimum Grade*	Requirement Category	Course	Credit Hours	Minimum Grade*
Major (Elec)	SCI Elective	4	C	Major (Ecosystem)	BIO Ecosystems	4	C
Minor	Minor	3		TJP	TJP	3	
TJP	TJP	3		Minor	Minor	3	
TJP	TJP	3		Minor	Minor	3	
Elective	Elective	3		Elective	Elective	3	
Semester Hours	16			Semester Hours	16		
Cumulative Hours	112			Cumulative Hours	128		

*A minimum 2.0 cumulative GPA and a minimum 2.0 major GPA are required for graduation, so monitor your GPA closely. To meet degree requirements, some disciplines require higher grades in each course or a higher cumulative GPA.

This four-year plan is only a sample and will vary by student and course availability.

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