

Name \_\_\_\_\_

Student ID \_\_\_\_\_

Date \_\_\_\_\_

#### 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:

\_\_\_ BUS109 Business Plan Competition

\_\_\_ 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 434)

\_\_\_ 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

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\_\_\_ BIO 300-level elective

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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.**

# MARIAN UNIVERSITY

— Indianapolis —<sup>®</sup>

## B.S. in Biology

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	
<b>Semester Hours</b>				<b>Semester Hours</b>			
<b>14</b>				<b>17</b>			
<b>Cumulative Hours</b>				<b>Cumulative Hours</b>			
<b>14</b>				<b>31</b>			
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	
<b>Semester Hours</b>				<b>Semester Hours</b>			
<b>15</b>				<b>16</b>			
<b>Cumulative Hours</b>				<b>Cumulative Hours</b>			
<b>46</b>				<b>62</b>			
Junior Year							
Fall Semester				Spring Semester			
Requirement Category	Course	Credit Hours	Minimum Grade*	Requirement Category	Course	Credit Hours	Minimum Grade*
Major (Elec)	BIO 3xx Elective	4	C	Major (Organismal)	BIO Organismal	4	C
Major (Elec)	BIO 3xx Elective	4	C	Major (Elec)	BIO 3xx Elec	4	C
Major	PHY 110	4		Minor	Minor	3	
TJP	TJP	3		Elective	Elective	3	
Elective	Elective	2		Elective	Elective	3	
<b>Semester Hours</b>				<b>Semester Hours</b>			
<b>17</b>				<b>17</b>			
<b>Cumulative Hours</b>				<b>Cumulative Hours</b>			
<b>79</b>				<b>96</b>			
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	
<b>Semester Hours</b>				<b>Semester Hours</b>			
<b>16</b>				<b>16</b>			
<b>Cumulative Hours</b>				<b>Cumulative Hours</b>			
<b>112</b>				<b>128</b>			

\*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.