



## ACADEMIC MAP - Biology

(FOR PRE-DENTAL, PRE-MEDICAL, PRE-PHARMACY, PRE-PHYSICAL THERAPY, PRE-VETERINARY, PRE-MEDICAL TECHNOLOGY & PRE-OCCUPATIONAL THERAPY)

The academic map is a recommended 4-semester guide.

Some classes may be taken out of sequence. See your Faculty Advisor for details.

FRESHMAN YEAR			
First Semester	Sem Hrs.	Second Semester	Sem Hrs.
ENG 1113 English Composition I	3	ENG 1123 English Composition II	3
BIO 1133 General Biology I	3	BIO 1143 General Biology II	3
BIO 1131 General Biology I Lab***	1	BIO 1141 General Biology II Lab***	1
CHE 1213 General Chemistry I	3	CHE 1223 General Chemistry II	3
CHE 1211 General Chemistry I Lab***	1	CHE 1221 General Chemistry II Lab***	1
MAT 1313 College Algebra	3	MAT 1323 Trigonometry or MAT 1613 Calculus I*	3
HIS 1163 World Civilization I	3	<a href="#">HIS 1173 World Civilization II</a>	3
LLS 1311 Orientation	1		
	18		17
SOPHOMORE YEAR			
First Semester	Sem Hrs.	Second Semester	Sem Hrs.
CHE 2423 Organic Chemistry I	3	CHE 2433 Organic Chemistry II	3
CHE 2421 Organic Chemistry I Lab***	1	CHE 2431 Organic Chemistry II Lab***	1
PHY 2413 General Physics I	3	PHY 2423 General Physics II	3
PHY 2411 General Physics I Lab***	1	PHY 2421 General Physics II Lab***	1
Social Science (PSY, PSC, SOC) or ECO 2123 Microeconomics**	3	<a href="#">Social Science (PSY, PSC, SOC)**</a>	3
ART 1113 or MUS 1113 or SPT 2233	3	<a href="#">SPT 1113 Public Speaking I</a>	3
Elective	3	Elective/MAT2323**	3
	17		17

**TOTAL HOURS: 60-69**

*In general, a Pell grant will only cover up to 60 hours of a degree plan.*

\*Some professional schools require students to have calculus competency.

\*\*These courses should be carefully selected considering specific electives allowed at the appropriate professional schools. Students may choose the AA or AS degree program. The courses in blue are not required for the AS degree.

\*\*\*Some universities do not accept online laboratory courses. Please check with your intended institution.

### NOTES:

1. Please consult with the curriculum from the catalog of the university to which you plan to transfer for specific courses that can be taken at Co-Lin.
2. Acceptance of Community College work is limited to one-half of the total degree hour requirements for graduation in a given curriculum.
3. It is the student's responsibility to review the Mississippi Statewide Articulation Agreement for courses accepted by each Mississippi public university.

# **PROGRAM AND UNIVERSITY-SPECIFIC CONSIDERATIONS**

## **BIOLOGY**

- MSU: requires ENG 2423, MAT 1613, MAT 2323, 2 matching foreign language courses (6 hours); requires that Social Sciences should be taken in two different subject areas
- UM: requires MAT 1613, MAT 1623, 2 matching foreign language courses (6 hours)
- USM: requires ENG 2423 and MAT 1613

## **PRE-DENTAL**

- UMMC: requires BIO 2923 / BIO 2921, BIO 2513 / 2511 (recommended), BIO 2523 / 2521 (recommended); online courses will no longer be accepted to satisfy prerequisites for the Doctor of Dental Medicine program (exception: online courses taken between Spring 2020 and Summer 2023 are acceptable to satisfy prerequisites)

## **PRE-MEDICAL**

- UM: requires both PSY 1513 and SOC 2113, need ALL upper-level BIO courses in person, NO ONLINE courses will be accepted
- WCU: online courses not accepted for credit for WCU COM

## **PRE-PHARMACY**

- UM: requires MAT 2323, BIO 2513 / 2511, ECO 2123; no longer requires PHY 2423 / 242
- WCU: no longer requires PHY 2423 / 2421; live, in-person laboratory courses are preferred but not required

## **PRE-PHYSICAL THERAPY**

- UM: requires BIO 2513 / 2511 and BIO 2523 / 2521, PSY 1513 and any other upper-level PSY course, MAT 2323, BOT 1613 (recommended); DOES NOT require CHE 2423 / 2421 or CHE 2433 / 2431

## **PRE-VETERINARY**

- MSU (only MS program): prerequisites are MAT 2323, BIO 2923 / 2921, 15 hours in any of the following electives – MFL 1213, PHI 2113, ECO 2113, PSY 1513, SOC 2113

## **PRE-MEDICAL TECHNOLOGY**

- MSU: requires BIO 1133 / 1131, BIO 2923 / 2921, ENG 2423, one foreign language, and one history course; the two social science electives must be from two separate disciplines; no physics courses required
- UM: requires BIO 1133 / 1131, BIO 1143 / 1141, BIO 2923 / 2921; highly recommended are courses in statistics, physics, anatomy and physiology, and basic computer concepts
- UMMC: requires BIO 1133 / 1131, BIO 1143 / 1141, BIO 2923 / 2921; competitive program and all coursework must have a “C” or better for consideration of acceptance
- USM: requires BIO 1133 / 1131, BIO 1143 / 1141 OR BIO 2513 / 2511, BIO 2523 / 2521, BIO 2923 / 2921, CSC 1113, ENG 2423

## **PRE-OCCUPATIONAL THERAPY**

- UMMC: requires BIO 2513 / 2511, BIO 2523 / 2521, PSY 1513, PSY 2513, BOT 1613, MAT 2323
- WCU: requires BIO 2513 / 2511, BIO 2523 / 2521, PSY 1513, PSY 2533, SOC 2113, MAT 2323, SPT 1113; online courses not accepted for credit for WCU COM