

# Biology–Microbiology Academic Map

## Department of Biology

### Middle Tennessee State University • Murfreesboro



An academic map is a suggested four-year schedule of courses based on degree requirements in the undergraduate catalog. This sample schedule serves as a general guideline to help build a full schedule each term. Milestones, courses, and special requirements necessary for timely progress to complete a major are designated to keep you on track to graduate in four years. ***Missing milestones could delay your program.***

**This map is not a substitute for academic advisement—contact your advisor if you have any questions about scheduling or about your degree requirements.** Also see the current undergraduate catalog ([catalog.mtsu.edu](http://catalog.mtsu.edu)) for a complete list of requirements and electives. *Note: Requirements are continually under revision, and there is no guarantee they will not be changed or revoked; contact the department and/or program area for current information.*

**You may choose to attend a summer term to reduce your load during fall or spring terms but still stay on track to graduate in four years (see back). NOTE: Learning Support courses will alter the sequences on this map.**

## Suggested Fall/Spring Four-Year Schedule

FRESHMAN FALL			FRESHMAN SPRING		
Course	Hours	Milestones/Notes	Course	Hours	Milestones/Notes
BIOL 1110/1111(Nat Sci)	4		BIOL 1120/1121	4	
CHEM 1110/1111(Nat Sci)	4	Take CHEM 1010/1011 if weak or no background in Chemistry	CHEM 1120/1121	4	
MATH 1910 (Math)	4	Take MATH 1730 first if weak background in Math; may take MATH 1910 with acceptable Math ACT score (26).	COMM 2200 (Comm)	3	
ENGL 1010 (Comm)	3		ENGL 1020 (Comm)	3	
<b>SUBTOTAL</b>	<b>15</b>		<b>SUBTOTAL</b>	<b>14</b>	
SOPHOMORE FALL			SOPHOMORE SPRING		
BIOL 2230/2231	4		BIOL 3250/3251	4	
CHEM 3010/3011 or CHEM 2030/2031	4		Minor course	3	
Hum/FA (Rubric 1)	3		ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA)	3	
HIST 2010, HIST 2020, or HIST 2030	3		HIST 2010, HIST 2020, or HIST 2030	3	
			Upper-division elective	3	
<b>SUBTOTAL</b>	<b>14</b>		<b>SUBTOTAL</b>	<b>16</b>	
JUNIOR FALL			JUNIOR SPRING		
BIOL 3400/3401	4		BIOL 4110/4111, 4210/4211, or 4500	4	
BIOL 3500	3		BIOL Microbiology concentration	3–4	BIOL 3050/3051, 3210/3211 (odd yr.), 4080/4081 (odd yr.), 4300/4301, 4430, 4550, 4730 (even yr.)
BIOL 4350/4351, MATH 2050, or MATH 1920	3–4		Hum/FA (Rubric 2)	3	
Soc/Beh Sci (Rubric 1)	3		Soc/Beh Sci (Rubric 2)	3	
Upper-division minor course	3		Upper-division minor or elective	3	
<b>SUBTOTAL</b>	<b>16–17</b>		<b>SUBTOTAL</b>	<b>16–17</b>	
SENIOR FALL			SENIOR SPRING		
BIOL Microbiology concentration	3–4	BIOL 4300/4301, 4430, 4440, 4450, 4510, 4550	BIOL Microbiology concentration	3	See Junior Spring above for courses
Upper-division BIOL	4		BIOL 4200	2	
Upper-division minor or elective	3		Upper-division minor or elective	3–6	
Elective	3	3000-4000 any subject	Elective	6–3	
<b>SUBTOTAL</b>	<b>13–14</b>		<b>SUBTOTAL</b>	<b>14</b>	
<b>TOTAL HOURS IN PROGRAM: 120</b>					

# Suggested Fall/Spring/Summer Four-Year Schedule

Refer to [www.mtsu.edu/scholarships/](http://www.mtsu.edu/scholarships/) for information regarding use of the Lottery Scholarship for the summer term.

FRESHMAN FALL			FRESHMAN SPRING		
Course	Hours	Milestones/Notes	Course	Hours	Milestones/Notes
BIOL 1110/1111 (Nat Sci)	4		BIOL 1120/1121	4	
CHEM 1110/1111 (Nat Sci)	4	Take CHEM 1010/1011 if weak or no background in Chemistry	CHEM 1120/1121	4	
MATH 1910 (Math)	4	Take MATH 1730 first if weak background in Math; may take MATH 1910 with acceptable Math ACT score (26).	COMM 2200 (Comm)	3	
ENGL 1010 (Comm)	3		ENGL 1020 (Comm)	3	
<b>SUBTOTAL</b>	<b>15</b>		<b>SUBTOTAL</b>	<b>14</b>	
SOPHOMORE SUMMER					
BIOL 2230/2231	3		Hum/FA (Rubric 1)	3	
<b>SUBTOTAL</b>	<b>3</b>		<b>SUBTOTAL</b>	<b>3</b>	
SOPHOMORE FALL			SOPHOMORE SPRING		
BIOL 3250/3251	4		BIOL 3400/3401	4	
CHEM 3010/3011 or CHEM 2030/2031	4		Upper-division elective	3	
Minor course	3		ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA)	3	
HIST 2010, HIST 2020, or HIST 2030	3		HIST 2010, HIST 2020, or HIST 2030	3	
<b>SUBTOTAL</b>	<b>14</b>		<b>SUBTOTAL</b>	<b>13</b>	
JUNIOR SUMMER					
Hum/FA (Rubric 2)	3		BIOL upper-division elective	4	BIOL 4280 rec.; see advisor
<b>SUBTOTAL</b>	<b>3</b>		<b>SUBTOTAL</b>	<b>4</b>	
JUNIOR FALL			JUNIOR SPRING		
BIOL 4110/4111, 4210/4211, or 4500	4		BIOL 3500	3	
Minor course	3		BIOL Microbiology concentration	3–4	BIOL 3050/3051, 3210/3211 (odd yr.), 4080/4081 (odd yr.), 4300/4301, 4430, 4550, 4730 (even yr.)
BIOL 4350/BIOL 4351, MATH 2050, or MATH 1920	3–4		Soc/Beh Sci (Rubric 1)	3	
Upper-division minor course	3		Upper-division minor or elective	3	
<b>SUBTOTAL</b>	<b>13–14</b>		<b>SUBTOTAL</b>	<b>12–13</b>	
SENIOR FALL					
BIOL Microbiology concentration	3–4	BIOL 4300/4301, 4430, 4440, 4450, 4510, 4550	BIOL Microbiology concentration	3	BIOL 3050/3051, 3210/3211 (odd yr.), 4080/4081 (odd yr.), 4300/4301, 4430, 4550, 4730 (even yr.)
Soc/Beh Sci (Rubric 2)	3		BIOL 4200	2	
Upper-division minor or elective	3		Elective	3	
Elective	3	3000-4000 any subject	Upper-division minor or elective	3	
<b>SUBTOTAL</b>	<b>12–13</b>		Upper-division elective	3	
<b>TOTAL HOURS IN PROGRAM: 120</b>					