

# 2023–24 Biochemistry Academic Map

## Department of Chemistry

### 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
CHEM 1110/1111 (Nat Sci)	4	Prereq: High school chemistry and MATH 1710 with grade of C (2.0) or better or MATH ACT score of 19 or higher or CHEM 1010 with grade of C (2.0) or better	CHEM 1120/1121	4	Prereq: CHEM 1110 with C- or better
BIOL 1110/1111 (Nat Sci)	4	Prereq: MATH 1710	BIOL 1120/1121	4	Prereq: BIOL 1110/1111
HIST 2010, 2020, 2030, 2040, or 2050	3		HIST 2010, 2020, 2030, 2040, or 2050	3	
ENGL 1010 (Comm)	3		ENGL 1020 (Comm)	3	
<b>SUBTOTAL</b>	<b>14</b>		<b>SUBTOTAL</b>	<b>14</b>	
SOPHOMORE FALL			SOPHOMORE SPRING		
CHEM 3010/3011	4	Prereq: CHEM 1120/1121 with C- or better	CHEM 3020/3021	4	Prereq: CHEM 3010/3011 or equiv. with C- or better
BIOL 2230/2231	4	Prereq: BIOL 1110, BIOL 1120	Soc/Beh Sci (Rubric 1)	3	
MATH 1910 (Math)	4	Take MATH 1730 first if weak background in Math; may take MATH 1910 with acceptable Math ACT score (26).	BIOL 3250/3251	4	Prereq: BIOL 1110, BIOL 1120
COMM 2200 (Comm)	3		ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA)	3	
			Elective	1	
<b>SUBTOTAL</b>	<b>15</b>		<b>SUBTOTAL</b>	<b>15</b>	
JUNIOR FALL			JUNIOR SPRING		
CHEM 4500	3	Prereq: CHEM 3020	CHEM 4510	3	Prereq: CHEM 4500
CHEM 4550/4551	4	Prereq: CHEM 3020	BIOL elective (upper division)	3	See advisor
Hum/FA (Rubric 1)	3		PHYS 2020/2021	4	Prereq: PHYS 2010
PHYS 2010/2011	4	See advisor	Soc/Beh Sci (Rubric 2)	3	
Elective	2		Elective	3	See advisor
<b>SUBTOTAL</b>	<b>16</b>		<b>SUBTOTAL</b>	<b>16</b>	
SENIOR FALL			SENIOR SPRING		
CHEM 4330/4331	4	Prereq: MATH 1910; PHYS 2020	BIOL/CHEM elective (upper division)	3	See advisor
CHEM elective (upper division)	3	See advisor	Elective (upper division)	1	See advisor
Hum/FA (Rubric 2)	3		CHEM 4530 or 4570	2	
Elective	3	See advisor	Elective	3	
Elective	4		Elective	4	
<b>SUBTOTAL</b>	<b>17</b>		<b>SUBTOTAL</b>	<b>13</b>	
<b>TOTAL HOURS IN PROGRAM: 120</b>					

# Biochemistry Suggested Fall/Spring/Summer Four-Year Schedule

Refer to [www.mtsu.edu/financial-aid/scholarships](http://www.mtsu.edu/financial-aid/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
ENGL 1010 (Comm)	3		ENGL 1020 (Comm)	3	
CHEM 1110/1111 (Nat Sci)	4	Prereq: High school chemistry and MATH 1710 with grade of C (2.0) or better or MATH ACT score of 19 or higher or CHEM 1010 with grade of C (2.0) or better	CHEM 1120/1121	4	Prereq: CHEM 1110 with C- or better
BIOL 1110/1111 (Nat Sci)	4	Prereq: MATH 1710	BIOL 1120/1121	4	Prereq: BIOL 1110/1111
HIST 2010, 2020, 2030, 2040, or 2050	3		HIST 2010, 2020, 2030, 2040, or 2050	3	
<b>SUBTOTAL</b>	<b>14</b>		<b>SUBTOTAL</b>	<b>14</b>	
FRESHMAN SUMMER					
Hum/FA (Rubric 1)	3		Soc/Beh Sci (Rubric 1)	3	
<b>SUBTOTAL</b>	<b>3</b>		<b>SUBTOTAL</b>	<b>3</b>	
SOPHOMORE FALL			SOPHOMORE SPRING		
CHEM 3010/3011	4	Prereq: CHEM 1120/1121 with C- or better	CHEM 3020/3021	4	Prereq: CHEM 3010/3011 or equiv. with C- or better
BIOL 2230/2231	4	Prereq: BIOL 1110, BIOL 1120	BIOL 3250/3251	4	Prereq: BIOL 1110, BIOL 1120
MATH 1910 (Math)	4	Take MATH 1730 first if weak background in Math; may take MATH 1910 with acceptable Math ACT score (26).	ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA)	3	
COMM 2200 (Comm)	3		Soc/Beh Sci (Rubric 2)	3	
			Elective	1	
<b>SUBTOTAL</b>	<b>15</b>		<b>SUBTOTAL</b>	<b>15</b>	
SOPHOMORE SUMMER					
Students are encouraged to get involved in research.					
JUNIOR FALL			JUNIOR SPRING		
CHEM 4500	3	Prereq: CHEM 3020	CHEM 4510	3	Prereq: CHEM 4500
CHEM 4550/4551	4	Prereq: CHEM 3020	BIOL elective (upper division)	3	See advisor
PHYS 2010/2011	4	See advisor	PHYS 2020/2021	4	Prereq: PHYS 2010
Elective	2	See advisor	Elective	3	See advisor
<b>SUBTOTAL</b>	<b>13</b>		<b>SUBTOTAL</b>	<b>13</b>	
JUNIOR SUMMER					
Students are encouraged to get involved in research.					
SENIOR FALL			SENIOR SPRING		
CHEM 4330/4331	4	Prereq: MATH 1910; PHYS 2020	BIOL/CHEM elective (upper division)	3	See advisor
CHEM elective (upper division)	3	See advisor	Elective (upper division)	3	See advisor
Hum/FA (Rubric 2)	3		Elective	2	
Elective	3	See advisor	CHEM 4530 or 4570	2	
Elective	4	See advisor	Elective	3	
<b>SUBTOTAL</b>	<b>17</b>		<b>SUBTOTAL</b>	<b>13</b>	
<b>TOTAL HOURS IN PROGRAM: 120</b>					