

# 2024–25 Biochemistry Academic Map

Department of Chemistry

Middle Tennessee State University • Murfreesboro

**MIDDLE  
TENNESSEE**

STATE UNIVERSITY.

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.*



Scan the QR code or [click here](#) for more information about the new True Blue Core (TBC).

## Suggested Fall/Spring Four-Year Schedule

FRESHMAN FALL			FRESHMAN SPRING		
Course	Hours	Milestones/Notes	Course	Hours	Milestones/Notes
CHEM 1110/1111	4	TBC; Major; 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	4	TBC; Major; Prereq: MATH 1710	BIOL 1120/1121	4	Prereq: BIOL 1110/1111
History and Civic Learning	3	TBC; one must come from Discovery	History and Civic Learning	3	TBC; one must come from Discovery
Written Communication	3	TBC	Information Literacy	3	TBC
<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	Human Society and Social Relationships	3	TBC; one must come from Discovery
MATH 1910	4	TBC; Major; 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
Non-Written Communication	3	TBC	Creativity and Cultural Expression Literature	3	TBC
			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
Creativity and Cultural Expression	3	TBC; one must come from Discovery	PHYS 2020/2021	4	Prereq: PHYS 2010
PHYS 2010/2011	4	See advisor	Human Society and Social Relationships	3	TBC; one must come from Discovery
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
Creativity and Cultural Expression	3	TBC; one must come from Discovery	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

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. 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.

**NOTE:** Learning Support courses will alter the sequences on this map.

FRESHMAN FALL			FRESHMAN SPRING		
Course	Hours	Milestones/Notes	Course	Hours	Milestones/Notes
Written Communication	3	TBC	Information Literacy	3	TBC
CHEM 1110/1111	4	TBC; Major; 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	4	TBC; Major; Prereq: MATH 1710	BIOL 1120/1121	4	Prereq: BIOL 1110/1111
History and Civic Learning	3	TBC; one must come from Discovery	History and Civic Learning	3	TBC; one must come from Discovery
<b>SUBTOTAL</b>	<b>14</b>		<b>SUBTOTAL</b>	<b>14</b>	
FRESHMAN SUMMER					
Creativity and Cultural Expression	3	TBC; one must come from Discovery	Human Society and Social Relationships	3	TBC; one must come from Discovery
<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	4	TBC; Major; Take MATH 1730 first if weak background in Math; may take MATH 1910 with acceptable Math ACT score (26).	Creativity and Cultural Expression Literature	3	TBC
Non-Written Communication	3	TBC	Human Society and Social Relationships	3	TBC; one must come from Discovery
			Elective	1	
<b>SUBTOTAL</b>	<b>15</b>		<b>SUBTOTAL</b>	<b>15</b>	
SOPHOMORE SUMMER					
<b>Students are encouraged to get involved in research.</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
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					
<b>Students are encouraged to get involved in research.</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)	3	See advisor
Creativity and Cultural Expression	3	TBC; one must come from Discovery	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>					