

# 2016–17 Chemistry–Professional (Materials Track)

## Academic Map

### MTSU Department of Chemistry

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	Take CHEM 1010/1011 if weak or no background in Chemistry	CHEM 1120/1121	4	Prereq: CHEM 1110 with C- or better
BIOL 1110/1111 (Nat Sci)	4		BIOL 1120/1121	4	Prereq: BIOL 1110
MATH 1730 (Math)	4	Take MATH 1710 first if weak background in Math; may take MATH 1910 with acceptable Math ACT score (26).	MATH 1910	4	Prereq: MATH 1730 with C or better
ENGL 1010 (Comm)	3		ENGL 1020 (Comm)	3	
<b>SUBTOTAL</b>	<b>15</b>		<b>SUBTOTAL</b>	<b>15</b>	
SOPHOMORE FALL			SOPHOMORE SPRING		
CHEM 2230/2231	5	Prereq: CHEM 1120 with C- or better	CHEM 3020/3021	4	Prereq: CHEM 3010
CHEM 3010/3011	4	Prereq: CHEM 1120	PHYS 2020/2021	4	Prereq: PHYS 2010
PHYS 2010/2011	4		MATH 1920	4	Prereq: MATH 1910 with C or better
CSCI 1150	3	Or app. CSCI course	ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA)	3	
<b>SUBTOTAL</b>	<b>16</b>		<b>SUBTOTAL</b>	<b>15</b>	
JUNIOR FALL			JUNIOR SPRING		
CHEM or other upper division elective	3–4	CHEM: choose from 4600 or 4700 (offered odd yrs.)	CHEM 4360/4361	5	Prereq: CHEM 4330, MATH 1920
CHEM 4330/4331	4	Prereq: MATH 1910, PHYS 2020, CHEM 2230	CHEM 3000	1	Prereq: CHEM 3010
Soc/Beh Sci (Rubric 1)	3		Soc/Beh Sci (Rubric 2)	3	
Elective (upper division)	3	See advisor	Elective (upper division)	3	See advisor
COMM 2200 (Comm)	3		Hum/FA (Rubric 1)	3	
<b>SUBTOTAL</b>	<b>16–17</b>		<b>SUBTOTAL</b>	<b>15</b>	
SENIOR FALL			SENIOR SPRING		
CHEM 3530/3531	4	Prereq: CHEM 3010	CHEM 4400 or CHEM 4410	3	CHEM 4400 offered in even yrs.; CHEM 4410 offered in odd yrs.; prereq: CHEM 1120, CHEM 3010
CHEM 3880, 3970, or 4780	2	CHEM 4780 offered odd yrs.; prereq: CHEM 2230 or CHEM 3020	CHEM or other upper division elective	3–4	CHEM; choose from 4000, 4230/4231, 4100, or 4450 offered in odd yrs.; 4460 or 4610 offered in even yrs.
HIST 2010, HIST 2020, or HIST 2030	3		HIST 2010, HIST 2020, or HIST 2030	3	
Elective (upper division)	3	See advisor	Elective (upper division)	3	See advisor
Hum/FA (Rubric 2)	3		Elective	1	
<b>SUBTOTAL</b>	<b>15</b>		<b>SUBTOTAL</b>	<b>13–14</b>	
<b>TOTAL HOURS IN PROGRAM: 120</b>					

# Chemistry–Professional (Materials Track)

## 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		
CHEM 1110/1111 (Nat Sci)	4	Take CHEM 1010/1011 if weak or no background in Chemistry	CHEM 1120/1121	4	Prereq: CHEM 1110 with C- or better
BIOL 1110/1111 (Nat Sci)	4		BIOL 1120/1121	4	Prereq: BIOL 1110
MATH 1730 (Math)	4	Take MATH 1710 first if weak background in Math; may take MATH 1910 with acceptable Math ACT score (26).	MATH 1910	4	Prereq: MATH 1730 with C or better
ENGL 1010 (Comm)	3		ENGL 1020 (Comm)	3	
SUBTOTAL	15		SUBTOTAL	15	
FRESHMAN SUMMER					
Soc/Beh Sci (Rubric 1)	3		COMM 2200 (Comm)	3	
SUBTOTAL	3		SUBTOTAL	3	
SOPHOMORE FALL			SOPHOMORE SPRING		
CHEM 3010/3011	4	Prereq: CHEM 1120	CHEM 3020/3021	4	Prereq: CHEM 3010
CHEM 2230/2231	5	Prereq: CHEM 1120 with C- or better	PHYS 2020/2021	4	Prereq: PHYS 2010
PHYS 2010/2011	4		CSCI 1150	3	Or app. CSCI course
			ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA)	3	
SUBTOTAL	13		SUBTOTAL	14	
SOPHOMORE SUMMER					
Students are encouraged to get involved in research.					
JUNIOR FALL			JUNIOR SPRING		
CHEM 4330/4331	4	Prereq: MATH 1910, PHYS 2020, CHEM 2230	CHEM 4360/4361	5	Prereq: CHEM 4330, MATH 1920
CHEM or other upper division elective	3–4	CHEM: choose from CHEM 4600 or CHEM 4700 offered in odd yrs.	CHEM 3000	1	Prereq: CHEM 3010
MATH 1920	4	Prereq: MATH 1910 with C or better	Soc/Beh Sci (Rubric 2)	3	
Elective (upper division)	3	See advisor	Elective (upper division)	3	See advisor
			Hum/FA (Rubric 1)	3	
SUBTOTAL	14–15		SUBTOTAL	15	
JUNIOR SUMMER					
Students are encouraged to get involved in research.					
SENIOR FALL			SENIOR SPRING		
CHEM 3530/3531	4	Prereq: CHEM 3010	CHEM 4400 or CHEM 4410	3	CHEM 4400 offered in even yrs.; CHEM 4410 offered in odd yrs.; prereq: CHEM 1120, CHEM 3010
CHEM 3880, 3970, or 4780	2	CHEM 4780 offered odd yrs.; prereq: CHEM 2230 or CHEM 3020	CHEM or other upper division elective	3–4	CHEM; choose from 4000, 4230/4231, 4100, or 4450 offered in odd yrs.; 4460 or 4610 offered in even yrs.
HIST 2010, HIST 2020, or HIST 2030	3		HIST 2010, HIST 2020, or HIST 2030	3	
Elective (upper division)	3	See advisor	Elective (upper division)	3	See advisor
Hum/FA (Rubric 2)	3		Elective	1	
SUBTOTAL	15		SUBTOTAL	13–14	
TOTAL HOURS IN PROGRAM: 120					