

2017–18 Chemistry–Professional (Biomolecular Track)

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) 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 | |
| SUBTOTAL | 15 | | SUBTOTAL | 15 | |
| 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 |
| | | | ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA) | 3 | |
| SUBTOTAL | 13 | | SUBTOTAL | 15 | |
| JUNIOR FALL | | | JUNIOR SPRING | | |
| CHEM 4500 | 3 | Prereq: CHEM 3020 | CHEM 4510 | 3 | Prereq: CHEM 4500 |
| CSCI 1150 | 3 | Or app. CSCI course | CHEM 4530 | 2 | Prereq: CHEM 4500 |
| COMM 2200 (Comm) | 3 | | 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 |
| | | | Hum/FA (Rubric 1) | 3 | |
| SUBTOTAL | 15 | | SUBTOTAL | 15 | |
| SENIOR FALL | | | SENIOR SPRING | | |
| CHEM 4330/4331 | 4 | Prereq: MATH 1910, PHYS 2020, CHEM 2230 | CHEM 4360/4361 | 5 | Prereq: CHEM 4330, MATH 1920 |
| CHEM 3880 | 1 | Prereq: CHEM 2230 rec. | CHEM 4400 or CHEM 4410 | 3 | 4400 offered in even yrs.; 4410 offered in odd yrs. (Prereq: CHEM 3010) |
| 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 | |
| Elective | 3 | | | | |
| SUBTOTAL | 17 | | SUBTOTAL | 15 | |
| TOTAL HOURS IN PROGRAM: 120 | | | | | |

Chemistry–Professional (Biomolecular Track)

Suggested Fall/Spring/Summer Four-Year Schedule

Refer to 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 |
| 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 | | MATH 1910 | 4 | Prereq: MATH 1730 with C or better |
| ENGL 1010 (Comm) | 3 | | ENGL 1020 (Comm) | 3 | |
| SUBTOTAL | 15 | | SUBTOTAL | 15 | |
| FRESHMAN SUMMER | | | | | |
| Hum/FA (Rubric 1) | 3 | | Soc/Beh Sci (Rubric 1) | 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 | | COMM 2200 (Comm) | 3 | |
| Elective | 1 | | ENGL 2020, ENGL 2030, or HUM 2610 (Hum/FA) | 3 | |
| SUBTOTAL | 14 | | SUBTOTAL | 14 | |
| SOPHOMORE SUMMER | | | | | |
| Students are encouraged to get involved in research. | | | | | |
| JUNIOR FALL | | | JUNIOR SPRING | | |
| CHEM 4500 | 3 | | CHEM 4510 | 3 | Prereq: CHEM 4500 |
| Elective (upper division) | 3 | See advisor | CHEM 4530 | 2 | Prereq: CHEM 4500 |
| MATH 1920 | 4 | Prereq: MATH 1910 with C or better | CHEM 3000 | 1 | Prereq: CHEM 3010 |
| Soc/Beh Sci (Rubric 2) | 3 | | Elective (upper division) | 3 | See advisor |
| Elective (upper division) | 3 | | Elective | 3 | See advisor |
| SUBTOTAL | 16 | | SUBTOTAL | 12 | |
| JUNIOR SUMMER | | | | | |
| Students are encouraged to get involved in research. | | | | | |
| SENIOR FALL | | | SENIOR SPRING | | |
| CHEM 4330/4331 | 4 | Prereq: MATH 1910, PHYS 2020, CHEM 2230 | CHEM 4360/4361 | 5 | Prereq: CHEM 4330, MATH 1920 |
| CHEM 3880 | 1 | Prereq: CHEM 2230 rec. | CHEM 4400 or CHEM 4410 | 3 | 4400 offered in even yrs.; 4410 offered in odd yrs. (Prereq: CHEM 3010) |
| HIST 2010, HIST 2020, or HIST 2030 | 3 | | HIST 2010, HIST 2020, or HIST 2030 | 3 | |
| CSCI 1150 | 3 | Or app. CSCI course | Elective (upper division) | 3 | See advisor |
| Hum/FA (Rubric 2) | 3 | | | | |
| SUBTOTAL | 14 | | SUBTOTAL | 14 | |
| TOTAL HOURS IN PROGRAM: 120 | | | | | |