

**College of Basic and Applied Sciences
2019-2020 Upper Division Form**

Student name _____ Student # _____
 Major Chemistry Minor _____
 MTSU E-mail _____

Instructions: For students graduating in Fall 2016 or later, One (1) copy signed by major and minor advisors should be filed in DSB 120 with the Graduation Coordinator three semesters prior to graduation. An Intent to Graduate form must accompany the upper division form.

| General Education | Course | Semester | Grade | Notes | Credit Hours |
|--|-----------|----------|-------|----------------------------------|--------------|
| COMMUNICATION (9 hours) | ENGL 1010 | | | | 3 |
| | ENGL 1020 | | | | 3 |
| | COMM 2200 | | | | 3 |
| HISTORY (6 hours) Choose two: HIST 2010, HIST 2020, HIST 2030 | | | | | 3 |
| | | | | | 3 |
| HUMANITIES AND/OR FINE ARTS (9 hours) Choose one: ENGL 2020 or 2030 or HUM 2610 Choose two (different rubrics): ANTH 2210, ART 1030, ART 1920, DANC 1000, HIST 1010, HIST 1020, HIST 1110, HIST 1120, MUS 1030, PHIL 1030, THEA 1030 | | | | | 3 |
| | | | | | 3 |
| | | | | | 3 |
| MATHEMATICS (3 hours) * Choose one: MATH 1010, MATH 1530, MATH 1630, MATH 1710, MATH 1720, MATH 1730, MATH 1810, MATH 1910 | | | | Recommend MATH 1730 or MATH 1910 | 3 of 4 * |
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| NATURAL SCIENCES (8 hours) Choose two (different rubrics): ASTR 1030/1031, BIOL 1030/1031, BIOL 1110/1111, BIOL 2010/2011, BIOL 2020/2021, CHEM 1010/1011, CHEM 1030/1031, CHEM 1110/1111, GEOL 1030/1031, GEOL 1040/1041, P GEO 1030, PHYS 1110, PHYS 2010/2011, PHYS 2110/2111, PSCI 1030/1031, PSCI 1130/1131 | | | | Recommend PHYS 2010/2011 | 4 |
| | | | | Recommend CHEM 1110/1111 | 4 |
| SOCIAL/BEHAVIORAL SCIENCES (6 hours) Choose two (different rubrics): AAS 2100, ANTH 2010, ECON 2410, ECON 2420, GEOG 2000, GS 2010, HLTH 1530/1531, JOUR/EMC/RIM 1020, PS 1010, PS 1005, PSY 1410, RS 2030, SOC 1010, SOC 2010, WGST 2100 | | | | | 3 |
| | | | | | 3 |
| Hours Required | | | | | 41 |

| Major Courses (2.0 GPA required) | Course | Semester | Grade | Notes | Credit Hours |
|--|----------------|----------|-------|--|--------------|
| General Chemistry I | CHEM 1110/1111 | | | Preq: High school Chemistry. | (4) |
| General Chemistry II | CHEM 1120/1121 | | | Preq: CHEM 1110/1111 with a C- or better | 4 |
| Quantitative Analysis | CHEM 2230 | | | Preq: CHEM 1120/1121 with grade of C- (or equivalent course) | 3 |
| Quantitative Analysis Lab | CHEM 2231 | | | Preq: CHEM 1120/1121 with grade of C- (or equivalent course) | 2 |
| Organic Chemistry I | CHEM 3010/3011 | | | Preq: CHEM 1120/1121 or equivalent | 4 |
| Organic Chemistry II | CHEM 3020/3021 | | | Preq: CHEM 3010/3011 | 4 |
| Inorganic Chemistry I | CHEM 4400 | | | Preq: CHEM 1120 or equivalent; CHEM 2030 or CHEM 3010 recommended. | 3 |
| CHEM 3530/3531 OR (CHEM 4500 and 4510) | CHEM | | | | 4-6 |
| CHEM 4330/4331 OR (CHEM 4350/4351 and 4360/4361) | CHEM | | | | 4-8 |

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|--|--|--|--|--|-------|
| <p>7 hours of Upper Division Chemistry Electives:</p> <p>At least 5 hours chosen from: CHEM 3000, CHEM 3890, CHEM 4000, CHEM 4100, CHEM 4150, CHEM 4310, CHEM 4410, CHEM 4520, CHEM 4540, CHEM 4600, CHEM 4610, CHEM 4700, CHEM 4990</p> <p>AND</p> <p>At least 2 hours from: CHEM 3080, CHEM 3090, CHEM 3880, CHEM 4190, CHEM 4230/4231, CHEM 4280, CHEM 4380, CHEM 4430/4431, CHEM 4530, CHEM 4780</p> | | | | | 7 |
| Hours Required | | | | | 35-41 |

| Supporting and Elective Courses | | | | |
|-----------------------------------|----------|-------|---|--------------|
| Course | Semester | Grade | Notes | Credit Hours |
| MATH 1910 | | | Pre-req: MATH 1730 with a C (2.0) or higher, ACT MATH of 26, or Calculus Placement test with satisfactory score | 4 |
| MATH 1920 | | | Preq: MATH 1910 | 4 |
| MATH 1730 (Remaining credit) | | | Preq: MATH 1710 or successful completion of high school precalculus course | 1 |
| PHYS 2010/ 2011 or PHYS 2110/2111 | | | May be counted in general education | (4) |
| PHYS 2020/ 2021 or PHYS 2120/2121 | | | Preq: PHYS 2010/2011 or PHYS 2110/2111 and MATH 1920 with a minimum grade of C | 4 |
| Electives | | | Sufficient Upper Division credit (10-16 hours) must be taken to equal 42 total. | 25-31 |
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| Hours Required | | | | 38-44 |

| Optional Minor | | | | |
|-----------------------|---------------|-------|-------|--------------|
| Course | Semester | Grade | Notes | Credit Hours |
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| Hours Required | | | | |
| Signed: | | | | |
| | Minor Advisor | | | Date |

1. Degrees require a minimum of 120 semester hours (12 of the last 18 at MTSU) with a 2.0 GPA, a minimum of 42 upper-division hours (30 at MTSU) with a 2.0 GPA, and a minimum of 60 senior college hours.
2. Learning Support courses do not count toward the 120-hour requirement or cumulative degree GPA.

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|---------|---------------|--|--|
| Signed: | | | |
| | Major Advisor | | |
| | Date | | |