



AA in Chemistry to BS in Biochemistry
 Recommended 4-Year Course Sequence
 2024-2025 Catalog



FRESHMAN YEAR

| Fall | | | | Spring | | | |
|-----------|----------|------------------------------|-------|-----------|----------|-------------------------------|-------|
| TVCC | UT Tyler | Title | Hours | TVCC | UT Tyler | Title | Hours |
| ENGL 1301 | | Composition I | 3 | ENGL 1302 | | Composition II | 3 |
| HIST 1301 | | United States History I | 3 | HIST 1302 | | United States History II | 3 |
| CHEM 1411 | | General Chemistry I | 4 | CHEM 1412 | | General Chemistry II | 4 |
| MATH 2413 | | Calculus I | 4 | MATH 2414 | | Calculus II | 3 |
| BIOL 1406 | | Biology for Science Majors I | 4 | BIOL 1407 | | Biology for Science Majors II | 4 |
| | | | 18 | | | | 17 |

SOPHOMORE YEAR

| Fall | | | | Spring | | | |
|-----------|----------|--|-------|-----------|----------|-------------------------------|-------|
| TVCC | UT Tyler | Title | Hours | TVCC | UT Tyler | Title | Hours |
| GOVT 2305 | | Federal Government, Federal Government Constitution & Topics | 3 | GOVT 2306 | | Texas Government | 3 |
| | | Language, Philosophy, and Culture Course | 3 | | | Social and Behavioral Science | 3 |
| | | Component Area Course | 3 | | | Component Area Course | 3 |
| MATH 1342 | | Elementary Statistical Methods | 3 | PHYS 1402 | | College Physics II | 4 |
| PHYS 1401 | | College Physics I | 4 | | | Creative Arts Course | 3 |
| | | | 16 | | | | 16 |

JUNIOR YEAR

| Fall | | | | Spring | | | |
|------|-----------|--------------------------|-------|--------|-----------|-------------------------------|-------|
| TVCC | UT Tyler | Title | Hours | TVCC | UT Tyler | Title | Hours |
| | CHEM 3342 | Organic Chemistry I | 3 | | | Advanced Biology Elective | 3 |
| | CHEM 3143 | Organic Chemistry I Lab | 1 | | | Advanced Biology Elective Lab | 1 |
| | CHEM 3310 | Analytical Chemistry | 3 | | CHEM 3344 | Organic Chemistry II | 3 |
| | CHEM 3111 | Analytical Chemistry Lab | 1 | | CHEM 3145 | Organic Chemistry II Lab | 1 |
| | CHEM 4334 | Biochemistry I | 3 | | CHEM 4346 | Biochemistry II | 3 |
| | CHEM 4135 | Biochemistry I Lab | 1 | | CHEM 3320 | Inorganic Chemistry | 3 |
| | | | | | CHEM 3121 | Inorganic Chemistry Lab | 1 |
| | | | 12 | | | | 15 |

SENIOR YEAR

| Fall | | | | Spring | | | |
|------|-----------|-------------------------------|-------|--------|-----------|-------------------------------|-------|
| TVCC | UT Tyler | Title | Hours | TVCC | UT Tyler | Title | Hours |
| | CHEM 3352 | Physical Chemistry I | 3 | | CHEM 4344 | Molecular Basis of Disease | 3 |
| | CHEM 3153 | Physical Chemistry I Lab | 1 | | CHEM 3346 | Nano/Supra Chemistry | 3 |
| | CHEM 4340 | Proteomics | 3 | | CHEM 4191 | Seminar | 1 |
| | CHEM 4190 | Chemical Literature | 1 | | | Advanced Chemistry Elective | 3 |
| | | Advanced Biology Elective | 3 | | | Advanced Biology Elective | 3 |
| | | Advanced Biology Elective Lab | 1 | | | Advanced Biology Elective Lab | 1 |
| | | | 12 | | | | 14 |

| | |
|---|------------|
| Total Credit Hours at Trinity Valley Community College | 67 |
| Total Credit Hours at UT Tyler | 53 |
| Total Credit Hours | 120 |