## **East Central University**

#### **CHS**

## 2024-2025 Chemistry Biochemistry Degree Plan

#### FIRST YEAR

#### **Fall Semester**

MATH 1513 College Algebra CHEM 1114 General Chemistry I ENG 1113 Freshman Composition I General Education Exploration and Personal Enrichment

> UNIV 1001 Tiger Connect **BIOL 1114 General Biology**

17 or 18 TOTAL HOURS

## **Spring Semester**

MATH 1713 Trigonometry CHEM 1214 General Chemistry II **ENG 1213 Freshman Composition II** PS 1113 United States Government **BIOL 1314 General Zoology** OR BIOL 2344 General Microbiology

17 TOTAL HOURS

## SECOND YEAR

#### Fall Semester

CHEM 3114 Organic Chemistry I MATH 2825 Calculus and Analytic Geometry I PHYS 1114 General Physics I OR PHYS 2115 Engineering Physics I BIOL 2184 Human Anatomy

## **Spring Semester**

CHEM 4114 Organic Chemistry II PHYS 1214 General Physics II OR PHYS 2225 Engineering Physics II

General Education Cultural and Aesthetic Awareness (Intercultural Knowledge and Competence) HIST 24-3 United States History Survey

> Computer Proficiency requirement 17 or 18 TOTAL HOURS

17 or 18 TOTAL HOURS

#### I HIRD YEAR – JUNIOR (Beginning Fall of Even Year) OR FOURTH YEAR – SENIOR (Beginning Fall of Even Year)

## **Fall Semester**

PHYS 4514 Physical Chemistry I^ CHEM 4213 Biochemistry [offered every fall] CHEM 4221 Biochemistry Laboratory [offered every fall] BIOL 4313 Cell and Molecular Biology [offered every fall] General Education Elective (Global Citizenship)

## **Spring Semester**

CHEM 4413 Advanced Inorganic Chemistry^^^ BIOL 3634 Human Physiology General Education Cultural and Aesthetic Awareness (3 hours)

General Education or Electives (4 hours)

#### 14 TOTAL HOURS

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## THIRD YEAR – JUNIOR (Beginning Fall of Odd Year) OR FOURTH YEAR -SENIOR (Beginning Fall of Odd Year)

#### Fall Semester

CHEM 3214 Quantitative Analysis I [offered every fall] General Education or Electives (11 hours)

## **Spring Semester**

CHEM 4523 Advanced Biochemistry^^^^ CHEM 3484 Instrumental Analysis^^ General Education or Electives (7 hours)

#### **15 TOTAL HOURS**

## **14 TOTAL HOURS**

^^ Offered Spring Semester Even Years ^Offered Fall Semester Even Years ^^^ Offered Spring Semester Odd Years ^^^ Offered TBA (To Be Arranged)