



# Physician Shadowing

## IN SPAIN

### An International Path to Medicine

During the semester-long program, in addition to physician shadowing (16 hours with alternating on and off weeks), and doctor-lead seminars/reflective debriefings, you will be enrolled in Spanish and chemistry classes, that include touring cultural sites in nearby cities. Based on pre-travel questionnaire responses (e.g., academic goals, personal interests, pet affinity, and/or dietary restrictions) and a rigorous host screening, students will be matched with a local family; all meals are covered by the host family. University-provided private health insurance covers doctor, and hospital visits; prescriptions require out-of-pocket purchase.

For more information, contact: *Lanna Sheldon* at: [lanna.sheldon@ttu.edu](mailto:lanna.sheldon@ttu.edu).

#### **Program Target: Pre-medical/pre-health juniors and seniors**

- ✓ Work with medical professionals with a different cultural perspective
- ✓ Build intercultural communication skills specific to patient care
- ✓ Gain a greater global perspective in problem solving and
- ✓ Develop fluency in Spanish medical terminology



# BA in Chemistry with a Spanish Minor

## Example Scheduling Plan

YEAR  
1

### FALL

- ✓ CHEM 1307/1107 – Chemistry I & Lab
- ✓ SPAN 1501 – Beginning Spanish I
- ✓ MATH 1451 – Calculus I
- ✓ ENGL 1301 – Essential Rhetoric

### SPRING

- ✓ CHEM 1308/1108 – Chemistry II & Lab
- ✓ SPAN 1502 – Beginning Spanish II
- ✓ MATH 1452 – Calculus II
- ✓ ENGL 1302 – Advanced Rhetoric

### SUMMER

- ✓ ENGL 2307/2322 - Intro to Fiction & Global Lit
- ✓ Oral Communication & Art Core Elective

YEAR  
2

### FALL

- ✓ CHEM 3305/3105 – Organic Chemistry I & Lab
- ✓ SPAN 2301 – Intermediate Spanish I
- ✓ BIOL 1403 – Biology I & Lab
- ✓ PHYS 1403 – General Physics I

### SPRING

- ✓ CHEM 3306/3106 – Organic Chemistry & Lab
- ✓ SPAN 2302 – Intermediate Spanish II
- ✓ BIOL 1404 – Biology II & Lab
- ✓ PHYS 1404 – General Physics II
- ✓ PFW Core Elective

### SUMMER

- ✓ Online Global Scholar Certificate for multicultural credit. ([globalscholar.us](https://globalscholar.us))
- ✓ Language Philosophy & Culture
- ✓ Social & Behavioral Sciences (6-Hours)

YEAR  
3

### FALL (SEVILLE, SPAIN)

- ✓ CHEM 3310 – Molecular Biochemistry
- ✓ SPAN 3306 – Spanish Life and Culture
- ✓ SPAN 3309 – Medical Spanish/Shadowing
- ✓ SPAN 4343 – Advanced Language Skills

### SPRING

- ✓ CHEM 3301 – Descriptive Inorganic Chemistry
- ✓ CHEM 3000 – Undergraduate Research
- ✓ Advanced Biological Science Elective
- ✓ MATH 2300 – Statistical Methods

YEAR  
4

### FALL

- ✓ CHEM 3307/3107 – Physical Chemistry I & Lab
- ✓ CHEM 3341/3141 – Analytical Methods
- ✓ HIST 2301 – US History I
- ✓ POLS 1301 – American Public Policy
- ✓ Art Core Elective

### SPRING

- ✓ CHEM 4314/4114 – Instrumental Methods & Lab
- ✓ Advanced Chemistry Elective
- ✓ Advanced Biological Science Elective
- ✓ HIST 2302 – US History II
- ✓ POLS 2301 – American Government



# General Studies with Chemistry, Biology, and Spanish

## Example Scheduling Plan

YEAR  
**1**

### FALL

- ✓ CHEM 1307/1107 – Chemistry I & Lab
- ✓ SPAN 1501 – Beginning Spanish I
- ✓ MATH 1451 – Calculus I
- ✓ ENGL 1301 – Essential Rhetoric
- ✓ PFW Core Elective (1-Hour)

### SPRING

- ✓ CHEM 1308/1108 – Chemistry II & Lab
- ✓ SPAN 1502 – Beginning Spanish II
- ✓ ENGL 1302 – Advanced Rhetoric
- ✓ PFW Core Elective (1-Hour)

YEAR  
**2**

### FALL

- ✓ CHEM 3305/3105 – Organic Chemistry I & Lab
- ✓ SPAN 2301 – Intermediate Spanish I
- ✓ BIOL 1403 – Biology I & Lab
- ✓ PHYS 1403 – General Physics I
- ✓ Language, Philosophy & Culture (3-Hours)

### SPRING

- ✓ CHEM 3306/3106 – Organic Chemistry & Lab
- ✓ SPAN 2302 – Intermediate Spanish II
- ✓ BIOL 1404 – Biology II & Lab
- ✓ PHYS 1404 – General Physics II

### SUMMER

- ✓ Online Global Scholar Certificate for multicultural credit. ([globalscholar.us](https://globalscholar.us))

YEAR  
**3**

### FALL (SEVILLE, SPAIN)

- ✓ CHEM 3310 – Molecular Biochemistry
- ✓ SPAN 3306 – Spanish Life and Culture
- ✓ SPAN 3309 – Medical Spanish/Shadowing
- ✓ SPAN 4343 – Advanced Language Skills
- ✓ POLS 1301 – American Public Policy (Online)

### SPRING

- ✓ BIO 3416 – Genetics
- ✓ BIO 2403 – Human Anatomy & Physiology (Or other BIO Elective)
- ✓ Social & Behavioral Science Core (3-Hours)
- ✓ Jr./Sr. Elective (3-Hours)

YEAR  
**4**

### FALL

- ✓ BIO 3400 – Microbiology
- ✓ HIST 2301 – US History I
- ✓ Creative Arts Option (3-Hours)
- ✓ Jr./Sr. Elective (6-Hours)

### SPRING

- ✓ Creative Arts Option (3-Hours)
- ✓ HIST 2302 – US History II
- ✓ POLS 2306 – Texas Politics
- ✓ Social & Behavioral Science Core (3-Hours)
- ✓ Jr./Sr. Elective (3-Hours)





# BS in Biology with Chemistry and Spanish Minors

## Example Scheduling Plan

YEAR  
**1**

### FALL

- ✓ CHEM 1307/1107 – Chemistry I & Lab
- ✓ SPAN 1501 – Beginning Spanish I
- ✓ MATH 1320 – College Algebra
- ✓ ENGL 1301 – Essential Rhetoric

### SPRING

- ✓ CHEM 1308/1108 – Chemistry II & Lab
- ✓ SPAN 1502 – Beginning Spanish II
- ✓ MATH 2300 – Statistical Methods
- ✓ ENGL 1302 – Advanced Rhetoric
- ✓ PFW Core Elective

YEAR  
**2**

### FALL

- ✓ CHEM 3305/3105 – Organic Chemistry I & Lab
- ✓ SPAN 2301 – Intermediate Spanish I
- ✓ BIOL 1403 – Biology I & Lab
- ✓ POLS 1301 – American Public Policy
- ✓ ENGL 2000-Level Core Elective

### SPRING

- ✓ CHEM 3306/3106 – Organic Chemistry & Lab
- ✓ SPAN 2302 – Intermediate Spanish II
- ✓ BIOL 1404 – Biology II & Lab
- ✓ POLS 2306 – American Government
- ✓ Social & Behavioral Core Elective

### SUMMER

- ✓ Online Global Scholar Certificate for multicultural credit. ([globalscholar.us](https://globalscholar.us))

YEAR  
**3**

### FALL (SEVILLE, SPAIN)

- ✓ CHEM 3310 – Molecular Biochemistry
- ✓ SPAN 3306 – Spanish Life and Culture
- ✓ SPAN 3309 – Medical Spanish/Shadowing
- ✓ SPAN 4343 – Advanced Language Skills
- ✓ BIOL 4300 – Undergraduate Research

### SPRING

- ✓ BIOL 3305 - Organic Evolution
- ✓ BIOL 3309 - Principles of Ecology
- ✓ BIOL 3416 – Genetics
- ✓ Creative Arts Core Elective
- ✓ Oral Communication Core Elective

YEAR  
**4**

### FALL

- ✓ BIOL 3320/3120 – Cell Biology & Lab
- ✓ Advanced Biological Science Elective\*
- ✓ Advanced Biological Science Elective\*
- ✓ HIST 2300 – US History I
- ✓ PHYS 1403 – General Physics I

### SPRING

- ✓ Advanced Biological Science Elective\*
- ✓ Advanced Biological Science Elective\*
- ✓ Language, Philosophy & Culture
- ✓ HIST 2301 – US History II
- ✓ PHYS 1404 – General Physics II

\* Biology electives must be 3000-4000 level courses from BIOL, BOT, MBIO, ZOOL (NOT MBIO 3400); 3 hours from PHIL 3322, 3325, or 3334 may be applied. Up to 6 hours of undergraduate research may apply towards the degree requirements.

