

# University of the Incarnate Word<sup>®</sup>

## Bachelor of Science in **Statistics**

School of Mathematics, Science and Engineering

### PROGRAM OVERVIEW

The Bachelor of Science in Statistics in the School of Mathematics, Science and Engineering at the University of the Incarnate Word readies students to excel in a fast-growing profession that spans industries. With an emphasis on mathematics, logic, analysis and computer language, graduates are prepared to be successful and effective statistics professionals.

The B.S. in Statistics is a rigorous, 120-hour program. The 30-hour core, which includes courses in higher mathematics, probability and statistics, design and analysis, provides a strong foundation in calculation, logic and problem solving. The format of the B.S. in Statistics gives students the flexibility to pursue coursework in a variety of branches of statistics by selecting multiple statistics electives (9 hours), or to pursue a minor or major in another discipline. Students are also required to take one computer language course.

Throughout their program, statistics students can find support for their studies through the Math Tutoring Lab and faculty members.

### ADMISSION REQUIREMENTS

The requirements for admission to the B.S. in Statistics program are the same as the requirements for admission to the University of the Incarnate Word.

### CONTACT

**UIW Admissions**  
(210) 829-6005  
admission@uiwtx.edu

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Statistics (B.S.)

## B.S. in Statistics

### FRESHMAN YEAR

#### Fall

ENGL 1311: Composition I (3 hours)  
 PHIL 1381: Intro to Philosophy (3 hours)  
 MATH 2312: Calculus I (3 hours)  
 History (3 hours)  
 FYES 1211: First Year Experience Seminar (2 hours)  
 PEHP Physical Activity Course (1 hour)

**Total Hours: 15**

#### Spring

ENGL 1312: Composition II (3 hours)  
 RELS 1305, 1315, 1325, 1335 or 1327H (3 hours)  
 MATH 2313: Calculus II (3 hours)  
 General Elective (3 hours)  
 General Elective (3 hours)

**Total Hours: 15**

### SOPHOMORE YEAR

#### Fall

ENGL 2310: World Literature (3 hours)  
 MATH 3331: Foundations of Probability & Stats  
 (3 hours)  
 MATH 3320: Foundations of Higher Math (3 hours)  
 Modern Language I (3 hours)  
 PHIL 3312 Logic or Upper Level PHIL/RELS (3 hours)

**Total Hours: 15**

#### Spring

Fine Arts (3 hours)  
 MATH 3332: Foundations of Statistical Inference  
 (3 hours)  
 MATH 2322: Linear Algebra (3 hours)  
 Modern Language II (3 hours)  
 General Elective (3 hours)

**Total Hours: 15**

### JUNIOR YEAR

#### Fall

Statistics or General Elective (3 hours)  
 MATH 3314: Calculus III (3 hours)  
 Statistics Elective: MATH 3337, 4196, 4295, 4330,  
 4340, 4345, 4355, or 4360 (3 hours)  
 Science with Lab (4 hours)  
 Social Science (3 hours)

**Total Hours: 16**

#### Spring

MATH 4333: Regression Analysis (3 hours)  
 MATH 4325: Design of Experiments (3 hours)  
 Statistics Elective: MATH 3337, 4196, 4295, 4330,  
 4340, 4345, 4355, or 4360 (3 hours)  
 Statistics Elective or General Elective\* (3 hours)  
 Statistics Elective or General Elective\* (3 hours)

**Total Hours: 15**

### SENIOR YEAR

#### Fall

Statistics Elective: MATH 3337, 4196, 4295, 4330,  
 4340, 4345, 4355, or 4360 (3 hours)  
 Upper Level Elective (3 hours)  
 Statistics or General Elective\* (3 hours)  
 Statistics or General Elective\* (3 hours)  
 Statistics or General Elective\* (3 hours)

**Total Hours: 15**

#### Spring

Statistics Elective: MATH 3337, 4196, 4295, 4330,  
 4340, 4345, 4355, or 4360 (3 hours)  
 Upper Level Elective (3 hours)  
 Statistics or General Elective\* (3 hours)  
 Statistics or General Elective\* (3 hours)  
 General Elective (2 hours)

**Total Hours: 14**

120 hours needed to complete the B.S. in Statistics

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