

University of the Incarnate Word®
Bachelor of Science in
Engineering - Management Track

School of Mathematics, Science and Engineering

PROGRAM OVERVIEW

The Bachelor of Science in Engineering in the School of Mathematics, Science and Engineering at the University of the Incarnate Word develops highly skilled, highly educated engineering professionals ready to succeed in the lab, in the field or in the C-suite.

The B.S. in Engineering is a 129-hour degree program that combines a strong core of math, science and engineering courses with an intensive study in one of four tracks. Students can choose from electrical, mechanical, management and mechatronics tracks based on their career or academic goals.

The Management Track is an interdisciplinary concentration that integrates a comprehensive engineering education with business courses in economics, accounting, management and financial management, which all together prepare students for careers as managers and administrators in engineering and technology firms.

Engineering students also have the opportunity to work with faculty on ongoing research projects, among them are Unmanned Aircraft Systems (UAS) as part of the department's Autonomous Vehicle Systems (AVS) Lab.

The Capstone course challenges students to apply their engineering education and apply it as a solution or innovation to a contemporary issue.

ADMISSION REQUIREMENTS

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

CONTACT

UIW Admissions
(210) 829-6005
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This publication is available in alternate format by request. To request an alternate format, please contact the UIW Office of Admissions at (210) 829-6005. 5/2021 500

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THE WORD
IN THE WORLD**

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Engineering - Management

B.S. in Engineering - Management

FRESHMAN YEAR

Fall

CHEM 1301: Chemical Principles I (3 hours)
 MATH 2312: Calculus I (3 hours)
 ENGL 1311: Composition I (3 hours)
 ENGR 1201: Intro to Engineering (2 hours)
 ENGR 1310: Engineering Graphics CAD I (3 hours)
 ECON 2301: Macroeconomics (3 hours)

Total Hours: 17

Spring

CHEM 1302: Chemical Principles II (3 hours)
 CHEM 1203: General Chemistry Lab (2 hours)
 MATH 2313: Calculus II (3 hours)
 ENGL 1312: Composition II (3 hours)
 ENGR 1312: Engineering Graphics CAD II (3 hours)
 PEHP Physical Education (1 hour)

Total Hours: 15

SOPHOMORE YEAR

Fall

MATH 2322: Linear Algebra (3 hours)
 ENGR 2330: Engineering Prob. & Statistics (3 hours)
 ENGR 2305: Engineering Physics I (3 hours)
 ENGR 2105: Engineering Physics I Lab (1 hour)
 ENGL 2310: World Literature Studies (3 hours)
 Modern Language I (3 hours)

Total Hours: 16

Spring

ENGR 2340: Computer Programming (3 hours)
 MATH 2314: Differential Equations (3 hours)
 ENGR 2306: Engineering Physics II (3 hours)
 ENGR 2106: Engineering Physics II Lab (1 hour)
 PHIL 1381: Intro to Philosophy (3 hours)
 Modern Language II (3 hours)

Total Hours: 16

JUNIOR YEAR

Fall

ENGR 3340: Numerical Methods (3 hours)
 ENGR 4375: Thermodynamics (3 hours)
 Upper Level Engineering Elective (3 hours)
 HIST 1311, 1312, 1321, or 1322 (3 hours)
 Management Track Course (3 hours)

Total Hours: 15

Spring

ENGR 3430: Engineering Analysis and Lab (4 hours)
 Upper Level Engineering Elective (3 hours)
 ENGR 3350: Statics (3 hours)
 Fine Arts (3 hours)
 Management Track Course (3 hours)

Total Hours: 16

SENIOR YEAR

Fall

ENGR 3460: Circuit Analysis and Lab (4 hours)
 RELS 1305, 1315, 1325, or 1327 (3 hours)
 ENGR 3455: Mechanics of Materials and Lab (4 hours)
 DWHP 1200: Dimensions of Wellness (3 hours)
 Management Track Course (3 hours)

Total Hours: 16

Spring

ENGR 3462: Electronics and Lab (4 hours)
 Upper Level RELS or PHIL (3 hours)
 ENGR 4470: Fluid Mechanics and Lab (4 hours)
 ENGR 4490: Senior Capstone (4 hours)
 Management Track Course (3 hours)

Total Hours: 18

Management Track Courses

ECON 2302: Microeconomics
 ACCT 2311: Principles of Accounting

BMDS 3371: Management Science
 BFIN 3321: Principles of Financial Management

129 hours needed to complete the B.S. in Engineering with a Management track.