



ENGINEERING

Management Track

School of Mathematics, Science & Engineering

Degree Overview Engineering challenges in the 21st century require highly skilled, highly educated professionals. The demand for engineers in the U.S. grows every year. The modern engineer must be able to balance technology with the real world concerns of human resources and social issues. A student who graduates with Bachelor of Science in Engineering (BSE) degree will bring a unique set of skills to any future career.

Management Track The BSE degree combines a strong core of Math, Science and Engineering courses with an intensive study in a designated Track. UIW Engineering gives a broad knowledge of general engineering and a strong foundation in mathematics. The Management Track will prepare a student for a career as a manager in engineering and technology firms. We also offer Tracks in Electrical and Mechanical Engineering, where students will have the opportunity to study areas such as Mechatronics and Robotics. The BSE degree requires a full year of Chemistry, Physics, and Calculus. The Senior Project during the final year will be the capstone course for the BSE degree.

Pre-Engineering at UIW UIW also offers a Pre-Engineering program, which emphasizes study in math and science as a preparation for a degree in science or engineering. The program is for students who may want to transfer to another school for their engineering degree. The 2-year UIW program provides a strong background in Science, Math, and Computer Programming.

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Bachelor of Science in Engineering - Management Track
SCHOOL OF MATH, SCIENCE, & ENGINEERING
2015-2017

Freshman Year: Fall		Hrs.
CHEM 1301 Chemical Principles I		3
MATH 2312 Calculus I		3
ENGL 1311 Composition I		3
ENGR 1201 Introduction to Engineering		2
ENGR 1310 Engineering Graphics CAD I		3
ECON 2301 Macroeconomics		3
Total hours		17
Sophomore Year: Fall		
MATH 2322 Linear Algebra		3
ENGR 2330 Engineering Prob & Statistics		3
ENGR 2305 Engineering Physics I		3
ENGR 2105 Engineering Physics I lab		1
ENGL 2310 World Literature Studies		3
Modern Language I		3
Total hours		16
Junior Year: Fall		
ENGR 3340 Numerical Methods		3
ENGR 4375 Thermodynamics		3
ENGR 4399 Special Topics		3
HIST 1311, 1312, 1321, 1322		3
Track course		3
Total hours		15
Senior Year: Fall		
ENGR 3460 Circuit Analysis and lab		4
RELS 1305, 1315, 1325, or 1327		3
ENGR 3455 Mechanics of Materials and lab		4
DWHP 1200 Dimensions of Wellness		2
Track course		3
Total hours		16

Freshman Year: Spring		Hrs.
CHEM 1302 Chemical Principles II		3
CHEM 1203 General Chemistry Lab		2
MATH 2313 Calculus II		3
ENGL 1312 Composition II		3
ENGR 1312 Engineering Graphics CAD II		3
PEHP 11xx Physical Education		1
Total hours		15
Sophomore Year: Spring		
ENGR 2340 Computer Programming		3
MATH 2314 Differential Equations		3
ENGR 2306 Engineering Physics II		3
ENGR 2106 Engineering Physics II lab		1
PHIL 1381 Introduction to Philosophy		3
Modern Language II		3
Total hours		16
Junior Year: Spring		
ENGR 3430 Engineering Analysis and lab		4
ENGR 4399 Special Topics		3
ENGR 3350 Statics		3
Fine Arts Core		3
Track course		3
Total hours		16
Senior Year: Spring		
ENGR 3462 Electronics and lab		4
Upper level RELS or PHIL		3
ENGR 4470 Fluid Mechanics and lab		4
ENGR 4490 Senior Capstone		4
Track course		3
Total hours		18

Core Curriculum - Total Hours 40
Major - Total Hours 89
Degree - Total Hours 129

MANAGEMENT TRACK COURSES

ECON 2302 Microeconomics
ACCT 2311 Principles of Accounting
BMDS 3371 Management Science
BFIN 3321 Principle of Financial Management