

## BS in Engineering with an Electrical Track

Following this sequence increases the likelihood of completing this degree in four years' time. Dropping courses, adding additional courses, retaking classes, or registering for less than a full course load will delay graduation, so consult your academic advisor before deviating from this suggested sequence. Students may enroll in a course only if they have met all prerequisites for that course. Check the UIW Bulletin for details.

The **bolded** courses indicate the courses required for the Electrical Track.

	<b>FALL</b>	<b>SPRING</b>
<b>FR</b>	CHEM 1301 Chemical Principles 1 3 hrs	CHEM 1302 Chemical Principles 2 3 hrs
	MATH 2312 Calculus 1 3 hrs	CHEM 1203 General Chemistry Lab 2 hrs
	ENGL 1311 Composition 1 3 hrs	MATH 2313 Calculus 2 3 hrs
	ENGR 1201 Introduction to Engineering 2 hrs	ENGL 1312 Composition 2 3 hrs
	ENGR 1310 Engineering Graphics CAD 1 3 hrs	ENGR 1312 Engineering Graphics CAD 2 3 hrs
	ECON 2301 Macroeconomics 3 hrs	PEHP 11xx Physical Education 1 hr
	<b>Semester Hours 17 hours</b>	<b>Semester Hours 15 hours</b>
<b>SO</b>	MATH 2322 Linear Algebra 3 hrs	ENGR 2340 Computer Programming 3 hrs
	ENGR 2330 Engineering Prob & Statistics 3 hrs	MATH 2314 Differential Equations 3 hrs
	ENGR 2305 Engineering Physics 1 3 hrs	ENGR 2306 Engineering Physics 2 3 hrs
	ENGR 2105 Engineering Physics 1 lab 1 hr	ENGR 2106 Engineering Physics 2 lab 1 hr
	ENGL 2310 World Literature Studies 3 hrs	PHIL 1381 Introduction to Philosophy 3 hrs
	Second Language 1 3 hrs	Second Language 2 3 hrs
	<b>Semester Hours 16 hours</b>	<b>Semester Hours 16 hours</b>
<b>JR</b>	ENGR 3340 Numerical Methods 3 hrs	ENGR 4470 Fluid Mechanics and lab 4 hrs
	ENGR 3430 Engineering Analysis and lab 4 hrs	Upper Level Engineering Elective 3 hrs
	Upper Level Engineering Elective 3 hrs	ENGR 3350 Statics 3 hrs
	Fine Arts 3 hrs	RELS 1305, 1315, 1325, or 1327 3 hrs
	<b>ENGR 2463 Digital Logic 3 hrs</b>	ENGR 3460 Circuit Analysis and lab 4 hrs
	<b>Semester Hours 16 hours</b>	<b>Semester Hours 17 hours</b>
<b>SR</b>	DWHP 1200 Dimensions of Wellness 2 hrs	HIST 1311, 1312, 1321, 1322 3 hrs
	ENGR 3455 Mechanics of Materials and lab 4 hrs	Upper level RELS or PHIL 3 hrs
	ENGR 4375 Thermodynamics 3 hrs	ENGR 4490 Senior Capstone 4 hrs
	<b>ENGR 3364 Signals and Systems 3 hrs</b>	<b>ENGR 4366 Digital Signal Processing 3 hrs</b>
	ENGR 3462 Electronics and lab 4 hrs	<b>ENGR 4368 Intro to Control Systems 3 hrs</b>
	<b>Semester Hours 15 hours</b>	<b>Semester Hours 17 hours</b>
		<b>Total 129 hours</b>

### UIW Core Course Options

#### FINE ARTS

Any three-hour Performance or History course in Visual Art, Dance, Music, or Theatre

#### RELIGIOUS STUDIES

Choose from RELS 1305, 1315, 1325, 1327

#### PHILOSOPHY

PHIL 1381

#### PHIL or RELS Upper level

3000 level or above

#### SOCIAL SCIENCE

ANTH 1311, CLST 2315, **ECON 2301**, GOVT 1315, 1316, PSYC 1301, SOCI 1311

#### NATURAL SCIENCE

BIOL 1401, 1402, 2321/2121;

**CHEM 1301/1203**, 1405

ENSC 1410

GEOL 1401, 1402, 1415, 1420

METR 1430

NUTR 2400

PHYS 1301/1101, 2305/2105

#### HISTORY

HIST 1311, 1312, 1321, 1322

#### MATH

MATH 1304, 1306, 2303,

**or higher level**

#### Electrical Track Courses

Choose Four Courses

-ENGR 2463 Digital Logic

-ENGR 3364 Signals and Systems

-ENGR 4366 Digital Signal Processing

-ENGR 4368 Intro to Control Systems

-Or other Electrical elective, approved by

Academic Advisor