

## BS in Engineering with a Mechanical 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 Mechanical 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	ENGR 3350 Statics 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 3430 Engineering Analysis and lab 4 hrs
	ENGR 4375 Thermodynamics 3 hrs	Upper Level Engineering Elective 3 hrs
	PHIL 1381 Introduction to Philosophy 3 hrs	Fine Arts 3 hrs
	HIST 1311, 1312, 1321, 1322 3 hrs	<b>ENGR 4373 Heat Transfer 3 hrs</b>
	Upper Level Engineering Elective 3 hrs	<b>ENGR 3373 Dynamics 3 hrs</b>
	<b>Semester Hours 15 hours</b>	<b>Semester Hours 16 hours</b>
<b>SR</b>	ENGR 3460 Circuit Analysis and lab 4 hrs	ENGR 3462 Electronics and lab 4 hrs
	RELS 1305, 1315, 1325, or 1327 3 hrs	Upper level RELS or PHIL 3 hrs
	ENGR 3455 Mechanics of Materials and lab 4 hrs	ENGR 4470 Fluid Mechanics and lab 4 hrs
	DWHP 1200 Dimensions of Wellness 2 hrs	ENGR 4490 Senior Capstone 4 hrs
	<b>ENGR 4353 Mechanical Vibrations 3 hrs</b>	<b>ENGR 4354 FinEIA or 4357 Mech Design 3 hrs</b>
	<b>Semester Hours 16 hours</b>	<b>Semester Hours 18 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**

#### Mechanical Track Courses

Choose 4 Courses

**-ENGR 3373 Dynamics**

**-ENGR 4354 Finite Element Analysis**

**-ENGR 4357 Mechanical Design**

**-ENGR 4353 Mechanical Vibrations**

**-ENGR 4373 Heat Transfer**

-Other Mechanical elective, approved by Academic Advisor