

Bachelor of Science in Industrial and Systems Engineering

Degree Worksheet

Name: _____



General Education Requirements	General Education Requirements Met?
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An Associate in Arts & Science degree or an Associate of Science in Pre- Engineering from UW-Stevens Point at Wausau satisfies the general education requirements of UW-Platteville. Please see UW-Stevens Point at Wausau degree requirements here: <https://www.uwsp.edu/wausau/academics/Pages/advising.aspx>; <https://www.uwsp.edu/wausau/academics/Anon/Pre-engineering.pdf>; [Copy of New AAS worksheet Final.xlsx](#) or contact your UW-Stevens Point at Wausau advisor. The Solution Center on the Wausau campus is a friendly place to start for questions you may have. Feel free to call, email or make an appointment with a member of the staff to get the information and assistance you need. M-F 8am-4:30pm. 715-261-6235 or e-mail: uwspwausau@uwsp.edu.

Date: _____

UWP Credits	UWP Course #	UWP Course Title	UWSP Credits	UWSP Course #	UWSP Course Title	Pre-Engineering AS requirement (R) or elective (E)	Course Taken	Semester	Grade	Credits
Mathematics (17 credits)										
4	MATH 2640	Calculus & Analytic Geom. I**	5	MATH 225	Calculus I**	R				
4	MATH 2740	Calculus & Analytic Geom. II**	5	MATH 226	Calculus II**	R				
3	MATH 4030	Statistical Methods w/Appl.								
3	MATH 4050	Appl Regression Analy.								
	or STAT 3130	Intro. Appl regression Analy.								
3	STAT 3230	Experimental Des & Analy.								
Basic Sciences (13 credits)										
5 to 8	CHEM 1140 and CHEM 1240	General Chemistry I and II	5 to 10	CHEM 105 and CHEM 106	Fundamental Chemistry	R				
	CHEM 1450	Chemistry for Engineers		or CHEM 117	General Chemistry Principles	R				
4	PHYS 2240	General Physics I	5	PHYS 240	University Physics 1	R				
4	BIOL 2340	Anatomy and Physiology	4	BIOL 285	Anatomy and Physiology Principles					
General Engineering (21-23 credits)										
1	GENENG 1030	Intro. to Engineering Projects	3	ENGR 105	Engineering Fundamentals	R				
2 or 3	GENENG 1320/2030	Graphics Elective	3	ENGR 107	Engineering Graphics with Computer Aided Drafting	E				
3	GENENG 2130	Statics	3	ENGR 220	Statics	R				
4	GENENG 2340	Mechanics of Materials	4	ENGR 222	Mechanics of Materials	E				
2	GENENG 2820	Engineering Economy								
3	MECHENG 3040	Engineering Materials								
Choose 2:										
3 or 4	Engrg./ Computer/ Data Sci. Elective*		5	PHYS 250	University Physics II	R				
			3	ENGR 221	Dynamics	R				
3 or 4	Engrg./ Computer/ Data Sci. Elective*		3	ENGR 263	Engineering Thermodynamics	E				
			4	MATH 227	Calculus III	E				
			3	PHYS 300	Modern Physics	E				

UWP Credits	UWP Course #	UWP Course Title	UWSP Credits	UWSP Course #	UWSP Course Title	Pre-Engineering AS requirement (R) or elective (E)	Course Taken	Semester	Grade	Credits
Professional Engineering (36 Credits: 2.0 GPA minimum required)										
3	INDSTENG 2130	Fun. Of Ind. & Sys. Engineering								
3	INDSTENG 3130	IE Computer Apps								
3	INDSTENG 3530	Operations Research I								
3	INDSTENG 3630	Work Measurement and Design								
3	INDSTENG 3730	Engineering Management								
3	INDSTENG 3830	Engrg. Design of Systems								
3	INDSTENG 4030	Production and Operations								
3	INDSTENG 4130	System Sim. & Analy.								
3	INDSTENG 4430	Quality Engineering								
3	INDSTENG 4440	Human Factors								
3	INDSTENG 4830	Eng Continuous Improvement								
3	INDSTENG 4930	Senior Design Project								
	GENENG 4930	Interdisciplinary Design								
Technical Electives (9 Credits)										
<i>Choose 9 credits. At least 6 credits from INDSTENG courses</i>										
3	INDSTENG 3780	Systems Safety Engineering								
3	INDSTENG 4230	Facilities Design								
3	INDSTENG 4530	Operations Research II								
3	INDSTENG 4540	Human Perf and Sys Design								
3	INDSTENG 4630	Manufacturing Sys Design								
3	INDSTENG 4980	Special Topics								
3	Approved Non-IE Technical Electives***	Non-IE Technical Electives***								
Professional Requirement (1-3 Credits)										
<i>Select any 1 of the following</i>										
1	INDSTENG 3970	IE Internship								
2	INDSTENG 3950	IE Co-op								
3	INDSTENG 4990	Independent Study								
3	INDUSTDY 1010	Safety & Risk Mgmt.								
3	BUSADMIN 2330	Leadership & Mgmt.								
3	ENTRP 2020	Startup Launchpad								
Notes										
*if all required courses for Pre-Engineering AS are taken, this requirement is satisfied. Otherwise student may select from the list or take additional courses at UW-Platteville.										
**must be taken at same institution										
*** with approval from Advisor and IE Program Coordinator										