

Degree: Industrial Engineering, B.S.				
Requirement Area	Course	Course Title	Prerequisites	Units
First Semester				
LD Major/B4	MATH 130	Calculus I	One from the following: Satisfactory score of 78 or higher on Mathematics Placement Exam, MATH 120 or MATH 125 (either course with grade C- or better).	4
B1/B3 LD Major	CHEM 110	General Chemistry for Engineering		3
A2	ENGL 102			3
LD Major	PHYS 135	Physics for Scientists and Engrs. I		4
			Total:	14
Second Semester				
LD Major	PHYS 136	Physics for Scientists and Engrs. II	MATH 130 and PHYS 135.	4
LD Major	MATH 131	Calculus II	MATH 130 with grade C- or better.	3
LD Major/WII	ENGR 200	Introduction to Engineering and Design		3
LD Major	ENGR 210	Manufacturing Materials and Processes	CHEM 110 and MATH 130.	4
			Total:	14
Third Semester				
A1				3
LD Major	MATH 210	Linear Alg. With Differential Eq	MATH 130.	3
B2/Sustainability Overlay				3
LD Major	ENGR 220	Statics	PHYS 135.	3
UD Major	INDE 330	Engr. Statistics and Prob.	MATH 130.	3
			Total:	15
Fourth Semester				
A3				3
D1/LD Major	PSYC 100	General Psychology		3
LD Major	ENGR 215	Computer Methods in Engr.	MATH 131.	3
LD Major	ENGR 230	Electric Circuits I	PHYS 136 and MATH 131.	3
UD Major	INDE 340	Design of Engr. Experiments	INDE 330 or STAT 316.	3
			Total:	15
Fifth Semester				
Code 1/D2				3
C1				3
UD Major	ENGR 320	Engr. Economics	MATH 130.	3
B6/UD Major	INDE 390	Human Factors and Work Methods	INDE 330 or STAT 100;	4
UD Major	INDE 360	Operations Research	MATH 131.	4
			Total:	17
Sixth Semester				
UD Major	INDE 410	Facilities Plan. Dsgn. and Mat. Handling	ENGR 210.	3
UD Major	INDE 430	Design of Work Systems	INDE 390.	4
UD Math		student choice		3
C2				3
Add'l C1 or C2*				3
			Total:	16
Seventh Semester				
Code 2/D3				3
C4/Social Justice				3
UD Major	INDE 420	Discrete Event Simulation	ENGR 215, and INDE 390.	3
UD Major	INDE 440	Sustainable Production and Supply Systems	INDE 360, and either	4
UD Math		student choice		3
			Total:	16
Eighth Semester				
D4/Diversity Overlay				3
UD Major	INDE 450	Systems Quality and Reliability	ENGR 210, and either	4
UD Major	INDE 460	Service & Manu. Systems Modeling	INDE 360.	4
UD Major	INDE 492	Senior Design	Completion or	4
			Total:	15
Total Units:				122

General Education & University Requirements - Suggested Courses
Area A (9 units): Communication in the English Language & Critical Thinking (Must earn passing grade of C-/CR or better)
<input type="checkbox"/> A1. COMM 100 or 104
<input type="checkbox"/> A2. ENGL 101, 102, or 104
<input type="checkbox"/> A3. PHIL 100
Area B (9 units) : Scientific Inquiry & Quantitative Reasoning
<input type="checkbox"/> B1. Physical Science
<input type="checkbox"/> B2. Life Science
<input type="checkbox"/> B3. Laboratory Activity
<input type="checkbox"/> B4. Quantitative Reasoning (Must earn passing grade of C-/CR or better.)
Area C (9 units): Arts & Humanities - Minimum of three different disciplines as designated by course prefix (e.g., ART, THEA, MUS)
<input type="checkbox"/> C1. Arts
<input type="checkbox"/> C2. Humanities
<input type="checkbox"/> * Additional Lower-division Area C Course in Arts (C1) or Humanities (C2)
Area D (9 units) : Social Sciences - Minimum of three different disciplines as designated by course prefix (e.g., ANTH, ECON, POSC)
<input type="checkbox"/> D1.
<input type="checkbox"/> D2.
<input type="checkbox"/> D3.
Second Composition : Requires completion of GE A2 with a C-/CR or better. Must be completed before attaining junior standing.
<input type="checkbox"/> Writing II.
University Writing Skills Requirement
<input type="checkbox"/> UWSR. Writing Skills Test (WST) or First and/or Second Tier Courses.
U.S. Code (American Institutions Requirement) - Two courses (6 units)
<input type="checkbox"/> Code 1.
<input type="checkbox"/> Code 2.
Upper Division GE Requirements (9 units): Should be taken after completion
<input type="checkbox"/> B6. Upper-division Science Inquiry and Quantitative Reasoning
<input type="checkbox"/> C4. Upper-division Arts OR Humanities
<input type="checkbox"/> D4. Upper-division Social Sciences
Overlay Requirements (9 units): Courses may be upper or lower division, and
<input type="checkbox"/> Diversity (Div)
<input type="checkbox"/> Social Justice (SJ)
<input type="checkbox"/> Sustainability (S)