

Partnership for College and Career Success/Illinois Central College
2009-2010



Cluster: Manufacturing Pathway: Production Process Development/ Health, Safety, & Environmental Assurance/Logistics & Inventory Control/Quality Assurance

Associate in Applied Science: Industrial Engineering Transfer Program

High School:					Illinois Central College / * Optional		4 yr College
SUBJECT	9	10	11	12	Freshman	Sophomore	Junior, Senior
English	English 1	English 2/ Speech	English 3	English 4	MATH 222 Calculus & Analytical Geometry I CHEM 130 General Chemistry ENGR 110 Intro to Engineering Graphics ENGR 113 Engineering Graphics ENGL 110 Composition I	MATH 224 Calc. & Analytic Geometry III ENGL 111 Composition II PHYS 212 Engineering and Physics: Electricity and Magnetism ENGR elective Social Science or Humanities Elective	Occupational Safety and Health, Ergonomics, Facilities Planning, Advanced Quality Control, Information Systems Design, Calculus, Physics, etc. Contact the College of Engineering and Technology at Bradley University or Southern Illinois University for more information.
Math	Algebra 1	Geometry	Algebra II/ Trigonometry	Pre-Calculus/ Analytical Geometry			
Science	Physical Science	Biology	Chemistry	Physics			
Social Science		Geography	US History/ Gov't	World Geography			
Other Required	Heath.	Dr. Ed			MATH 223 Calculus & Analytical Geometry II ENGR 230 Programming and Engineering Applications PHYS 211 Engineering Physics: Mechanics ENGR, MATH, or Science Elective	MATH 250 Differential Equations PHYS 213 Engineering and Physics: Thermodynamics Social Science or Humanities Electives	
Tech Emphasis	Industrial Arts or Agriculture	I Industrial Arts or Agriculture	Industrial Arts or Agriculture	Industrial Arts or Agriculture			
Foreign Language	Level 1	Level 2					
Phys Ed	PE	PE	PE	PE			

* Optional: All 4 years are also available at the four year colleges, depending on your goals / convenience.