

## Saluki Step Ahead Online Program

A partnership between John A Logan College and Southern Illinois University Carbondale

Industrial Management and Applied Engineering Pathway  
Associate in Engineering Science  
BS Industrial Management and Applied Engineering (IMAE)

Semester 1 - John A Logan College			Semester 2 - John A Logan College		
ORI 100 or SCI 100	College 101 or STEM Fundamentals	1	MAT 201	Calculus II	5
MAT 131	Calculus I	5	PHY 205	University Physics I	5
EGR 101	Engineering Graphics or Elective	3	CPS 206 or CHM 152	Com Sci I or Chem Principle w/Quant. Analysis	4
ENG 101 or ENG 113	English Composition I or Professional Technical Writing	3	ENG 102	English Composition I	3
CHM 151	Chemical Principles	<u>5</u>			<u>17</u>
		<b>17</b>			

Semester 3 - John A Logan College			Semester 4 - John A Logan College		
MAT 202	Calculus III	3	MAT 205	Differential Equations	3
PHY 206	University Physics II	5	PHY 202	Dynamics	3
PHY 201	Statics	3	ECO 202 or IAI Social Science	Microeconomics	3
ECO 201 or IAI Social Science	Macroeconomics	3	IAI Life Science		3
IAI Humanities/Fine Arts		<u>3</u>	PHY 224 or 214	Electric Circ Analysis w/Lab or Intro Circuit Analysis	<u>3</u>
		<b>17</b>			<b>15</b>

<b>Total Hours at John A Logan College</b>	<b>66</b>
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Semester 5 - Fall Southern Illinois University			Semester 6 - Spring Southern Illinois University		
CMST 101	Intro: Oral Communication	3	FINE ARTS		3
MULTICULTURAL		3	IMAE Elective	300-400 level	3
IMAE 110	Geometric Dimensioning & Tolerancing	3	IMAE 390	Cost Estimating	3
IMAE 208	Fundamentals of Manufacturing Processes	3	IMAE 442	Fundamentals of Leadership	3
IMAE 305	Industrial Safety	<u>3</u>	IMAE 476	Supply Chain Management	<u>3</u>
		<b>15</b>			<b>15</b>

Semester 7 - Fall Southern Illinois University			Semester 8 - Spring Southern Illinois University		
IMAE 392	Facilities Planning & Workplace Design	3	IMAE 375	Production and Inventory Management	3
IMAE 450	Project Management	3	IMAE 340	Intro to Supervision	3
IMAE 465	Lean Manufacturing	3	IMAE 470B	Six Sigma Green Belt II	3
IMAE 470A	Six Sigma Green Belt I	3	IMAE 445	Computer Integrated Manufacturing	<u>3</u>
IMAE Elective	300-400 level	<u>3</u>			<b>12</b>
		<b>15</b>			

<b>Total Hours at SIU</b>	<b>57</b>
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<b>Total Hours</b>	<b>123</b>
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\*Courses can be taken at JALC or SIU. Students should work closely with their academic advisor.