Transfer Planning Guide

St. Ambrose University Industrial Engineering Freshman Admission

St. Ambrose Contact
Dr. Michael Opar
563-333-6152
oparmichaele@sau.edu

Black Hawk Contact
Dr. Douglas Davidson
Phone: 309-796-5246
davidsond@bhc.edu

TRANSFER FACTS

- This transfer guide is designed to allow students the option of enrolling in courses for the Industrial Engineering major at St. Ambrose University in their freshman year while simultaneously enrolling in general education courses at Black Hawk College. Students following this plan must be admissible to St. Ambrose University as a freshman.
- Students following this agreement will complete the Associate in Arts or Associate in Science degree from Black Hawk College by transferring courses back to BHC after transfer to SAU. By earning the associate degree after matriculation to SAU, students will be able to make progress toward the bachelor's degree while taking advantage of an articulation agreement between Black Hawk College and St. Ambrose University.
- The St. Ambrose Industrial Engineering Program is accredited by the Engineering Accreditation Commission of the Accreditation Board of Engineering and Technology (ABET). The course requirements, quality of instruction and the control of the curriculum meet or exceed nationally established requirements.
- To graduate with an industrial engineering degree, a minimum GPA of 2.50 must be earned for all semester credits used to satisfy the course requirements. A minimum GPA of 2.0 is required for all IE and ENGR courses. A minimum GPA of 2.00 must be earned in the combination of semester credits and attempted transfer credits. In addition, Calculus I and Calculus II must be completed with a grade of C or better.
- Engineering Seminars (ENGR 201, 301 and 401) are required for all engineering majors and should be taken by the time a student has completed approximately 50, 75, and 100 percent, respectively, of the engineering course requirements.
- A maximum of 64 community college credits will be applied toward the semester hours required for SAU graduation; however, some hours beyond the limit accepted may be used to meet degree requirements or course prerequisites.
- Students attending continuously but on a part-time basis are expected to complete the requirements within eight years.

REQUIRED COURSES
First Year - Black Hawk College and St. Ambrose University Courses

Fall	Hrs.	Spring	Hrs.	Summer	Hrs.
ENG 101 Composition I	3	ENG 102 Composition II	3	SPEC 101 Prin. Speech Com.	3
CHEM 101 Gen. Chemistry I	4	MATH 225 Calculus II	4	Humanities	3
MATH 124 Calculus I	4	PHYS 201 General Physics	5		
GE101 Engineering Graphics	3	MATH 228 Probability & Statistics	3		
ENGR 105 Intro to Industrial Engineering @SAU	2	**ENGR 270 Materials Science @SAU**	2		
Total=	**16**	**Total=**	**17**	**Total=**	**6**

Second Year - Black Hawk College and St. Ambrose University Courses

Fall	Hrs.	Spring	Hrs.	Summer	Hrs.
MATH 226 Calculus III	5	MATH 235 Differential Eq.	3	Life Science	3
PHYS 202 General Physics	5	GE 202 Analytical Mechanics Dynamics	3	Social Science	3
GE 201 Analytical Mechanics Statics	3	GE 205 Elem. Mechanics of Deformable Bodies	3		
ENGR 296 Manufacturing Processes @SAU	4	MATH 230 Linear Algebra	3		
		ENGR 265 Engineering Economy @SAU	3		
Total=	**17**	**Total=**	**15**	**Total=**	**6**
			Total BHC/SAU Program Hours = 66/11		

Third Year – St. Ambrose University Courses

Fall	Hrs.	Spring	Hrs.	Summer	Hrs.
IE 305 Industrial Engineering Methods	2	IE 351 Industrial Engineering Design Laboratory	3		
IE 350 Operations Planning	3	IE 360 Introduction to Simulation	3		
IE 335 Quality Control and Reliability	3	IE 340 Ergonomics and Occupational Safety	3		
ENGR 111 Engineering Graphics	1	Fine Arts	3		
Social Science	3	Social Science	3		
Information Literacy	1	KIN Elective	1		
Humanities or Fine Arts	3				
Total=	**16**	**Total=**	**16**	**Total=**	

Fourth Year – St. Ambrose University Courses

Fall	Hrs.	Spring	Hrs.	Summer	Hrs.
IE 391 Operations Research Probability Models	3	IE 409 Operations Research	3		
IE 403 Design Fundamentals	3	ENGR 450 Professional Experience	1		
IE 415 Systems Integration and Design	3	IE 490 Industrial Engineering Senior Design Seminar	3		
Nonwestern Studies	3	Major Elective	3		
Theology/Philosophy	3	Philosophy/Theology 300+	3		
		KIN 149	1		
Total=	**15**	**Total=**	**14**	**Total=**	
			Total Program Hours BHC/SAU – 66/72=138		

This guide is not intended to be a contract with SAU. The information on this guide is subject to change; students are advised to contact SAU to keep informed of changes. Final responsibility for verifying all transfer information lies with the student.

Last Updated**:** 6/1/2012