Transfer Planning Guide
A.S. Degree

St. Ambrose University
Industrial Engineering

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TRANSFER FACTS

- This guide is designed for students who wish to earn an Associate in Science degree at Black Hawk College prior to transfer to St. Ambrose University to complete a bachelor's degree in Industrial Engineering.
- Students are strongly advised to complete the associate degree prior to transfer. Students who transfer prior to completion of the associate degree will have their courses evaluated on a "course-by-course" basis.
- 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 a B.S. in Industrial Engineering, SAU requires a minimum GPA of 2.50 for all semester credits used to satisfy major requirements. A grade of "C" or better must be received in all MATH courses to be awarded credit.
- 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.
- Courses transferred to SAU at or above the 300 level will not apply toward the upper division requirement for graduation.
- 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. The SAU Registrar has the final authority for accepting credit for transfer.
- Students attending continuously but on a part-time basis are expected to complete the requirements within eight years.

REQUIRED COURSES - The following courses should be included within the AA/AS Degree.

First Year - Black Hawk College 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	Social Science	3
MATH 124 Calculus I	4	PHYS 201 General Physics	5		
GE101 Engineering Graphics	3	Humanities (PHIL 101 or PHIL 103 recommended)	3		
Social Science	3	Life Science	3		
Total=	**17**	**Total=**	**18**	**Total=**	**6**

Second Year - Black Hawk College Courses

Fall	Hrs.	Spring	Hrs.	Summer	Hrs.
MATH 226 Calculus III	5	MATH 230 Linear Algebra	3	Humanities or Fine Arts	3
MATH 228 Prob. & Statistics	3	MATH 235 Differential Eq.	3	Social Science	3
PHYS 202 General Physics	5	GE 202 Analytical Mechanics Dynamics	3		

Fall	Hrs.	Spring	Hrs.	Summer	Hrs.
GE 201 Analytical Mechanics Statics	3	GE 205 Elem. Mechanics of Deformable Bodies	3		
		Non-Western Studies	3		
		Fine Arts	3		
Total=	**16**	**Total=**	**18**	**Total=**	**6**
				Total BHC Program Hours = 81	

Third Year – St. Ambrose University Courses

Fall	Hrs.	Spring	Hrs.	Summer	Hrs.
ENGR 105 – Intro to Engineering	2	ENGR 265 Engineering Economy	3		
ENGR 111 Engineering Graphics	1	ENGR 270 Materials Science	2		
IE 305 Industrial Engineering Methods	2	Theology/Philosophy 300+	3		
IE 335 Quality Control and Reliability	3	IE 340 Ergonomics and Occupational Safety	3		
Major Elective	3	IE 360 Introduction to Simulation	3		
** Foreign Language*	*(3)*	** Foreign Language*	*(3)*		
** Information Literacy	1	** KIN Elective	1		
ENGR 201 Engineering Service Seminar	0	ENGR 301 Engineering Participation Seminar	0		
Theology/Philosophy	3				
Total=	**15 (18)**	**Total=**	**15 (18)**	**Total=**	

Fourth Year – St. Ambrose University Courses

Fall	Hrs.	Spring	Hrs.	Summer	Hrs.
ENGR 296 Manufacturing Processes	4	IE 351 Industrial Engineering Design Laboratory	3		
IE 350 Operations Planning	3	KIN 149	1		
IE 391 Operations Research Probability Models	3	IE 409 Operations Research	3		
IE 403 Design Fundamentals	3	IE 490 Industrial Engineering Senior Design	3		
IE 415 Systems Integration and Design	3	*Elective (optional)*	*(3)*		
		ENGR 450 Professional Experience	1		
		ENGR 401 Engineering Exit Survey	0		
Total=	**16**	**Total=**	**11(14)**	**Total=**	
			Total Program Hours BHC/SAU - 81/57=138		

** Three years of one foreign language in high school fulfills the foreign language requirement.*

***KIN Elective and Information Literacy may be waived for students who have earned an AS degree.*

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**:** 9/17/2014