SINCLAIR COMMUNITY COLLEGE

and

CENTRAL STATE UNIVERSITY

Graduates of Sinclair Community College who have completed the requirements of the Associate of Applied Science Degree and have completed courses as indicated for the Operations Technology (Industrial Engineering Technology option) (see Attachment) will receive credits towards the Bachelor of Science in Industrial Technology (Manufacturing Management Concentration) degree at Central State University.

This agreement will be in effect on the date indicated below and continue for a period of two years, after which time officials from both institutions will make any necessary revisions.

Effective Date: April 9, 2009

Sinclair Community College

Steven L. Johnson, Ph.D.

President

Helen Grove, Ph.D.

Senior Vice President and Provost

Central State University

Jøhn W. Garland, Esq.

President

Terrence Glass, Ph.D.

Provost and Vice President for Academic Affairs



Sinclair Community College to Central State University



Articulation and Transfer Course Guide Leading to Central State University

Bachelor of Science Degree in Industrial Technology (Manufacturing Management Concentration)

Introduction: The information in this guide has been reviewed by officials at the listed institutions and has been verified as transferable and applicable towards the major listed. The student who intends to transfer to Central State University for the degree listed, and who completes an Associate of Applied Science (A.A.S.) degree in Operations Technology (Industrial Engineering Technology option) at Sinclair Community College, should understand that the below course of study is a listing of all courses that are relevant to the Bachelor of Science degree in Industrial Technology at Central State University. This does not reflect all of the courses required for completion of the Associate of Applied Science Degree in Operations Technology at Sinclair Community College. Please work closely with advisors at Sinclair and Central State University.

Course of Study

	Sinclair D		Central State Degree			
Qtr. Cr. Course Description		Sem. Cr.	Course	Description		
		Mathema	atics		ASSES PROFESSION OF THE PROFES	
5	MAT 131	Technical Mathematics I	3	MTH 1750	College Algebra	
5	MAT 132	Technical Mathematics II	3	MTH 2501	Trigonometry	
5	MAT 133	Technical Mathematics III	3	MTH 2001	Probability & Statistics	
		Englis	h			
3	ENG 111	English Composition I	4	ENG 1101	Introduction to Writing fo College	
3	ENG 112	English Composition II	4	ENG 1102	Writing & Researching th Essay	
3	ENG 113	English Composition III				
	The Part of the Pa	Natural and Phys	ical Sciences			
4	PHY 131	Technical Physics I	3		General Education - C	
4	PHY 132	Technical Physics II	3		General Education - C	
	*	•		1		
		Industrial Technolog	y Requireme	nts		
2	OPT 198	Excel for Engineering Technology	3	MFE 1110	Principals of Manufacturi	
3	OPT 205	Manufacturing Processes	L			
3	OPT 125	Introduction to World-	3	BUS 1100	Contemporary American	
		Class Operations			Business	
3	OPT 101	Introduction to Operations		0		
3	ETD 128	Print Reading with GD&T	4	INT 1110	Engineering Print Reading	
2	ETD 199	Introduction to Computer Aided Drafting Concepts		¥		
1	OPT 105	Introduction to OSHA General Industry Standards	3	INT 2410	Industrial Safety & Health	
3	OPT 112	Ergonomics				
3	OPT 201	Statistical Process Control	3	INT 3530	Quality Control (SPS/DO	
3	OPT 240	Six Sigma – Green Belt	1 1	AMERICAN PROPERTY.		
		0 1.0				
		Electives (Technica	l/Humanities)			
3	OPT 207	Operations System Analysis	3		Technical Electives	
3	OPT 209	Operations Cost Analysis		No. of the last of		
		Humanities Electives	3		Humanities Electives	

Completion of the following classes is recommended before admission to Central State.

	Sinclair D	egree		Central S	tate Degree	
Qtr. Cr.	Course	Description	Semester Cr.	Course	Description	
4	HIS 105	African-American History	3	HIS 1110	Intro History of Africans the U.S	
3		Humanities Electives	3		Humanities Electives 1	
9		Social Science Electives	9		Social Science Electives	
4		Natural and Physical Sciences	3	*	Natural and Physical Sciences ²	
3	PED 236	Personal & Community Health	2	HPR 1000	Health & Wellness	
1	·	PED Activity	1		HPR Activity ³	
5	ETD 287	Technical – Brid Solid Edge Basics	ge Courses 4	INT 1210	Engineering Computer Graphics	
5	ETD 291	Unigraphics Basics	3	INT 2320	Advanced 3-D Modeling	
4	ETD 251	D.C. Circuits	4	INT 2310	Circuit Analysis	
4	EET 155	A.C. Circuits	1 1		2.1. July 1 Hidly Did	
3	EGR 144	Sensors	3	INT 2420	Industrial Instrumentation & Process Control	
3	EGR 215	Control Systems				
4	ETD 213	Statics	3	INT 2460	Applied Statics	
ā 			3	BUS 2200	Legal Environment of Business	
5	ACC 121 Principles of Financial Accounting		3	ACC 2201	Principles of Accounting	

General Notes:

¹ Requires HIS 1121/1122 Global History I/II from Central State, or equivalent from Sinclair.

² Requires 3 hours of Natural and Physical Sciences other than Physics.

³ Students 25 or older are exempted from the physical education activity requirement.

⁴ Students are encouraged to complete these courses at Sinclair or enroll at Central State using the SOCHE consortium before transferring to Central State.

⁵All students must satisfy the English proficiency requirement by testing or passing ENG 3000.

TRANSFER GUIDE COURSE PLAN FOR THE DEGREE, BACHELOR OF SCIENCE MAJOR In Industrial Technology (Manufacturing Management Concentration)

The curriculum below is to be used in consultation with an academic advisor. The student must be familiar with the University requirements, the Core Curriculum and any Special Requirements for the above degree.

		FALL SEMESTER			SPRING SEMESTER		
Year	Course Number	Title	Credit Hrs	Year	Course Number	Title	Credit Hrs
	INT 3510	Materials & Machine Processes 3			ACC 2240	Managerial Accounting	3
	INT 3540	Programmable Logic Controllers	3		BUS 2343	Principles of Management	3
	INT 3550	Applied Strength of Materials	3		INT 3610	Plastics Technology	3
Junior	ы э			Junior	INT 3620	Computer Numerical Control	3
Ju				Ju			
		Total	9			Total	12
or	INT 4710	Manufacturing Processes	3	3		Principles of Marketing	3
	INT 4730	CAD/CAM/CAE 3		10	BUS 3331	Principle of Finance	3
	INT 4795	Senior Design Capstone I	2	2	MKT 3456	Purchasing	3
	MGT 4441	Labor Management	3		INT 4895	Senior Design Capstone II	2
Senior		Total	11	Senior		Total	11
	# # # # # # # # # # # # # # # # # # #					Total hours needed to obtain an Industrial Technology, Manufacturing Management Concentration degree	130