

**ARTICULATION AGREEMENT**  
**between**  
**INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS**  
**AND IVY TECH STATE COLLEGE-INDIANAPOLIS**

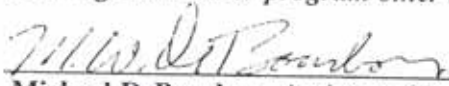
for the following programs:


DESIGN TECHNOLOGY-CAD/CAM SPECIALITY (A.A.S.)  
to  
COMPUTER INTEGRATED MANUFACTURING TECHNOLOGY (B.S.)

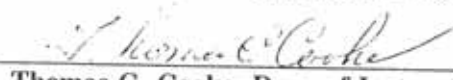
The purpose of this Articulation Agreement is to provide a framework for students at Ivy Tech State College-Indianapolis to continue their formal education. These students have indicated that Indiana University Purdue University Indianapolis (IUPUI) is their selection for continuing their education in order to complete the requirements of the baccalaureate degree program.

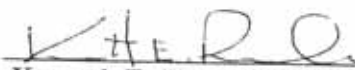
To ensure a smooth transition to the baccalaureate degree program at IUPUI, the faculty of both institutions have developed the attached listing of course equivalencies approved for transfer beginning with the Fall Semester 1999-2000. The course listing consists of two parts. Part I identifies each course in the Ivy Tech State College-Indianapolis syllabus and exactly how that course will appear on the students official IUPUI transcript upon completion of the transfer. Part II, prepared for use by IUPUI academic advisors, details precisely how each of the transferred courses will be integrated into the student's academic program at IUPUI. To ensure consistency and accuracy, these documents must be periodically reviewed by representatives from both institutions to communicate and update information regarding curriculum and textbooks. A grade of "C" or above must be earned in a course in order to obtain credit toward the baccalaureate degree.

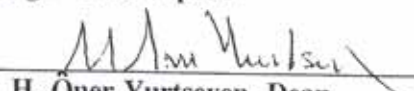
Any course taken prior to Fall 1999, will be evaluated by faculty from IUPUI in order to determine the transferability of the course work. This Articulation Agreement, including any modifications, may be reviewed by either institution upon request. *While all parties to this agreement understand its purpose is to maximize opportunities for individual students, they also recognize that limits may be placed on courses accepted under provisions of this agreement should the student subsequently decide to change to another program other than that covered by this agreement.*

  
Michael DeBourbon, Assistant Chair  
Business and Technology Division

  
Deanna S. Timmons, Chair  
Business and Technology Division

  
Thomas C. Cooke, Dean of Instruction  
Ivy Tech State College - Indianapolis

  
Kenneth E. Rennels, Chair  
Department of Mechanical Engineering  
Technology

  
H. Oner Yurtseven, Dean  
Purdue School of Engineering and Technology  
Indiana University-Purdue University

April 16, 1999

[APPROVED 4-16-99]

\* Not accepted for credit in the Computer Integrated Manufacturing Technology program.



*ITSC/IUPUI* [APPROVED 4-16-99]

1/ Credit for TG 110 granted only if **all three** of the following courses are completed: DCT 113, DSN 106 and DSN 220.

2/ Credit for CIMT 244 granted only if both MTT 220 and MTT 221 are completed.

3/ Credit for MET 212 granted only if both DSN 221 and DSN 222 are completed.

This special advising guide represents agreement for an articulated program between IUPUI and ITSC. Changes and/or course substitutions may not be made without authorization from the Chair, Department of Mechanical Engineering Technology. Use of this guide for advising other students may be inappropriate. *[EFFECTIVE FOR ALL COURSES COMPLETED AT ITSC BEGINNING FALL SEMESTER 1997.]*

**COMP. INTEGRATED MFG. TECH. [DESIGN TECH./CAD-CAM SPECIALITY] - Page 2**

MET 102	Production Design & Specifications	3					
MATH 222	Calculus for Technology II	3					
IET 150	Quantitative Methods in Tech.	3					
IET 350	Engineering Economy	3					
TCM 220	Technical Report Writing	3					
IET 104	Industrial Organization	3					
IET 300	Metrology	3					
TCM 340	Corres. Business & Industry	3					
MET 271	Programming for Num. Control	3		MET #200 MET #200	CNC Program. I [MTT 208] CNC Program. II [MTT 209]	6	4/
CIMT 260	Robotics & Automated Material Handling	3					
MET 230	Fluid Power	3					
IET 454	Statistical Quality Control	3					
TCM 370	Oral Practicum Tech. Managers	3					
CIMT 310	Plant Layout & Material Handling	3					
OLS 252	Human Relations in Organizations	3					
CIMT 245	Computer-Aided Tool and Fixture Design	3					
CIMT 481	Capstone Project	3					
ELECTIVE	Technical Selective	3					
ELECTIVE	Technical Selective	3					
ELECTIVE	Technical Selective	3					
ELECTIVE	Social Science Elective	3					
TOTAL HRS. REPLACED BY ARTICULATION		29-32		TOTAL HOURS APPROVED FOR TRANSFER		55-58	
SURPLUS HOURS/HOURS EXCLUDED		26		LESS EXCESS FOR SPECIFIC SUBSTITUTIONS		14	
ADD'L HRS. REMAINING FOR COMPLETION		98-101		LESS SURPLUS HOURS NOT COUNTED		12	
TOTAL HOURS REQUIRED FOR GRADUATION		130		TOTAL HRS. ACCEPTED TOWARD DEGREE		29-32	
				ADD'L HOURS REMAINING FOR COMPLETION		98-101	

4/ Credit for MET 271 granted only if both MTT 208 and MTT 209 are completed.

M E M O R A N D U M

PURDUE SCHOOL OF  
ENGINEERING  
AND TECHNOLOGY



TO: Michael DeBourbon, Chair, Technology Division  
Robert Wood, Chair, Visual Communications  
Ivy Tech State College-Indianapolis

FROM: David Bostwick, Director *David Bostwick*  
Engineering Education Excellence Center

SUBJECT: Computer Graphics Technology Articulation Agreements

DATE: March 30, 2001

Attached are signed copies of the five new articulation agreements recently concluded between Ivy Tech State College-Indianapolis and the Purdue School of Engineering and Technology at IUPUI.

Despite reviews by several people prior to actually placing signatures on these documents it has been discovered that each agreement inadvertently displays an incorrect degree title for the IUPUI program. The appropriate title should be "Computer Graphics Technology" vice "Computer Integrated Manufacturing Technology." The title for each option at IUPUI is correct as are the titles used on Part I and Part II, respectively, for each agreement.

Please attach a copy of this memorandum as an addendum to each agreement.

cc: Dr. Rosalie Hine, ITSC  
Dr. Nasser Paydar, IUPUI  
Ken Rennels, IUPUI  
Doug Acheson, IUPUI

Attachments (as stated)

OFFICE OF THE DEAN

Purdue School of  
Engineering and Technology  
IUPUI  
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Student Name \_\_\_\_\_



**Design Technology  
CAD & Advanced Manufacturing  
Associate of Applied Science  
Ivy Tech Community College – Central Indiana  
Academic Year 2005-2006**

Students who earn an associate of applied science in CAD and Advanced Manufacturing will have the skills required to adapt to various industrial settings and respond to change in the work place. This degree prepares students for employment with companies utilizing CAD and CAM in the design and manufacturing of products.

**General Education Core – 19 Credits**

		Credits	Grade	Prerequisites
COM 101	Fundamentals of Public Speaking	3		ENG 025, ENG 032
ENG 111	English Composition	3		ENG 025, ENG 032
MAT xxx	1 <sup>st</sup> Course in a Series	3		See appropriate course description
MAT xxx	2 <sup>nd</sup> Course in a Series	3		See appropriate course description
PHY 101	Physics I	4		MAT 121
Xxx xxx	Humanities/Social Sciences Elective	3		See appropriate course description

**Professional/Technical Core – 45 Credits**

		Credits	Grade	Prerequisites
DSN 103	CAD Fundamentals	3		None
DSN 106	Descriptive Geometry	3		TEC 102
DSN 220	Advanced CAD	3		DSN 103, TEC 102,
DSN 221	Statistics	3		MAT 121
DSN 225	Portfolio Preparation	3		See program advisor
TEC 102	Technical Graphics	3		ENG 024, ENG 031, MAT 044
DSN 222	Strength of Materials	3		DSN 221
MTT 208	CNC Programming I	3		MAT 121
MTT 220	CAD-CAM I	3		MTT 208
MTT 221	CAD-CAM II	3		MTT 220
TEC 101	Processes and Materials	3		ENG 024, ENG 031, MAT 044
DSN 227	Geometric Dimensioning and Tolerance	3		TEC 102
DSN 288	Special Topics/DSN	3		See program advisor
IDS 292	Special Topics/IDS	3		See program advisor
MTT 209	CNC Programming II	3		MTT 208

**Total Required Credits 64**

## Sample Full-time Curriculum Sequence Two Academic Years

Semester 1		Credits
DSN 103	CAD Fundamentals	3
ENG 111	English Composition	3
MAT 111	Intermediate Algebra	3
TEC 101	Processes & Materials	3
TEC 102	Technical Graphics	3
Total Credits		15

Semester 2		Credits
CIS 113	Logic, Design, & Program	3
DSN 227	Geometric Dimensioning and Tolerancing	3
MAT 121	Geometry/Trigonometry	3
DSN 220	Advanced CAD	3
Xxx xxx	HUM/SOC SCI Elective	3
Total Credits		15

Semester 3		Credits
DSN 221	Statics	3
MTT 208	CNC Programming I	3
DSN 106	Descriptive Geometry	3
COM 101	Fund. Of Public Speaking	3
DSN 288	Prototyping & Design	3
DSN 225	Portfolio Prep	3
Total Credits		18

Semester 4		Credits
DSN 288-02	Adv. Prototype & Design	3
IDS 292	Lean Production	3
MTT 220	CAD/CAM I	3
PHY 101	Physics I	4
MTT 209	CNC Programming II	3
Total Credits		16

## Schedule of Semester Course Offerings

Course Number and Name		Fall		Spring		Sum	
		D	E	D	E	D	E
DSN 227	Geometric Dimensioning and Tolerancing	X			X		
DSN 103	CAD Fundamentals	X	X	X	X	X	X
DSN 106	Descriptive Geometry			X	X		
DSN 220	Advanced CAD	X	X		X	X	
DSN 221	Statistics	X			X		
DSN 222	Strength of Materials		X	X			
MTT 102	Turning Processes	X	X	X	X	X	X
MTT 103	Milling Processes	X	X	X	X	X	X
MTT 208	CNC Programming I		X		X		
MTT 209	CNC Programming II		X		X		
MTT 220	CAD/CAM I		X				
MTT 221	CAD/CAM II				X		
TEC 101	Processes and Materials		X	X			
TEC 102	Technical Graphics	X	X	X	X	X	X

## My Curriculum Plan

Use this chart to plan the length of time until you complete your program.

Semester 1		Credits
Total Credits		

Semester 2		Credits
Total Credits		

Semester 3		Credits
Total Credits		

Semester 4		Credits
Total Credits		

Semester 5		Credits
Total Credits		

Semester 6		Credits
Total Credits		