

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

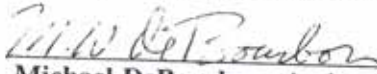
for the following programs:


DESIGN TECHNOLOGY-MECHANICAL SPECIALITY (A.A.S.)
to
MECHANICAL ENGINEERING TECHNOLOGY (B.S.)

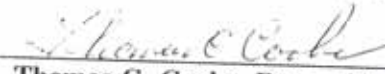
The purpose of this Articulation Agreement is to provide a framework for students at Ivy Tech State College-Indianapolis to continue their formal education. These students have indicated that Indiana University Purdue University Indianapolis (IUPUI) is their selection for continuing their education in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

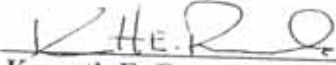
To ensure a smooth transition to the baccalaureate degree program at IUPUI, the faculty of both institutions have developed the attached listing of course equivalencies approved for transfer beginning with the Fall Semester 1999-2000. The course listing consists of two parts. Part I identifies each course 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.

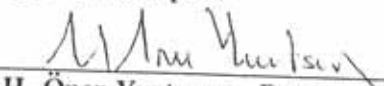
Any course taken prior to Fall 1999, will be evaluated by faculty from IUPUI in order to determine the transferability of the course work. This Articulation Agreement, including any modifications, may be reviewed by either institution upon request. *While all parties to this agreement understand its 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. Öner Yurtseven, Dean
Purdue School of Engineering and Technology
Indiana University-Purdue University

April 16, 1999

**PART I - DESIGN TECHNOLOGY (MECHANICAL
SPECIALITY) A.A.S. DEGREE COURSE ARTICULATION
PLAN - ITSC/IUPUI**

[APPROVED 4-16-99]

IVY TECH STATE COLLEGE				IUPUI			
DESIGN TECH./MECH. SPECIALITY (A.A.S.)				MECHANICAL ENGRG. TECHNOLOGY (B.S.)			
Course#	Course Title	Credit	Gr.	Course#	Course Title	Credit	Gr.
DSN 103	CAD Fundamentals	3		TG#100	CAD Fundamentals	3	*
ENG 111	English Composition	3		ENG W131	Elementary Composition I	3	
MAT 111	Intermediate Algebra	3		MATH 111	Algebra	3	*
TEC 101	Manufacturing Processes	3		MET 242	Manufacturing Processes	3	
TEC 102	Technical Graphics	3		TG #100	Technical Graphics	3	*
TEC 104	Comp. Fund. for Technology	3		CPT #100	Comp. Fund. for Technology	3	*
COM 101	Fund. of Public Speaking	3		COM R110	Fund. of Speech Comm.	3	
DCT 104	Product Drafting	3		MET 102	Production Design & Specif.	3	
DCT 105	Facilities Design & Layout	3		ART 155	Residential Construction	3	*
DCT 113	Intermediate CAD	3		TG #100	Intermediate CAD	3	
DSN 106	Descriptive Geometry	3		TG #100	Descriptive Geometry	3	
MAT 121	Geometry/Trigonometry	3		MATH 002	Geometry	3	*
DCT 201	Schematic Drafting	3			Not Accepted for Transfer		
DSN 220	Advanced CAD	3		TG #200	Advanced CAD	3	
DSN 221	Statics	3		MET #200	Statics	3	*
PHY 101	Physics I	4		PHYS 218	General Physics	4	
DCT 216	Jig and Fixture Design	3		CIMT 245	Computer Aided Tool & Fixture Design	3	
DCT 202	CAD Programming Language	3		TG #200	CAD Programming Language	3	*
DCT 217	Product Design	3		MET #200	Product Design	3	
DSN 222	Strength of Materials	3		MET #200	Strength of Materials	3	*
ELECT	Humanities/Social Sci. Elective	3		????	[if on transfer agreement list]	0-3	
TOTAL HOURS REQUIRED @ ITSC		64		TOTAL REPLACED BY ARTICULATION		25-28	
TOTAL HRS. APPROVED FOR ARTICULATION		25-28		ADD'L REQUIRED FOR B.S. (MET)		101-04	
HRS. APPROVED FOR TRANSFER BUT NOT COUNTING FOR DEGREE REQUIREMENTS		27		TOTAL REQUIRED FOR GRADUATION @ IUPUI		129	

* Not accepted for credit in the Mechanical Engineering Technology program.

**PART II - DESIGN TECHNOLOGY (MECHANICAL
SPECIALITY) A.A.S. DEGREE COURSE ARTICULATION
PLAN -ITSC/IUPUI [APPROVED 4-16-99]**

IUPUI SYLLABUS				IVY TECH STATE COLLEGE			
MECHANICAL ENGINEERING TECHNOLOGY (B.S.)				DESIGN TECHNOLOGY/MECHANICAL SPECIALITY (A.A.S.)			
Course #	Course Title	Credit	Gr.	Course #	Course Title	Credit	Gr.
MET 105	Intro. to Engineering Tech.	3					
MET 141	Materials I	3					
TG 110	Drafting Fundamentals	3		TG #100 & TG #100 & TG #200	Descriptive Geom. [DSN 106] Intermediate CAD [DCT 113] Advanced CAD [DSN 220]	9	1/
MATH 153	Algebra and Trigonometry I	3					
ENG W131	Elementary Composition I	3		ENG 111	English Composition	3	
MET 111	Applied Statics	3					
TCM 220	Technical Report Writing	3					
MET 102	Production Design & Specif.	3		DCT 104	Product Drafting	3	
MET 142	Manufacturing Processes I	3					
IET 104	Industrial Organization	3					
MATH 154	Algebra and Trigonometry II	3					
MET 211	Applied Strength of Materials	4					
COMM R110	Fund. Speech Communication	3		COM 101	Fund. of Public Speaking	3	
PHYS 218	General Physics I	4		PHYS 101	Physics I	4	
MET 242	Manufacturing Processes II	3		TEC 101	Manufacturing Processes	3	
MATH 221	Calculus for Technology I	3					
MET 214	Machine Elements	3					
PHYS 219	General Physics II	4					
MET 230	Fluid Power	3					
MET 220	Heat/Power	3					
ELECTIVE	Technical Elective	3		MET #200	Product Design [DCT 217]	3	

1/ Credit for TG 110 granted only if DCT 113, DSN 106 and DSN 220 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.]

MECH. ENGINEERING TECH. [DESIGN TECH./MECHANICAL SPECIALITY - Page 2

MET 320	Applied Thermodynamics	3				
MET 213	Dynamics	3				
TCM 340	Corres. Business & Industry	3				
IET 150	Quantitative Meth. for Tech.	3				
MATH 222	Calculus for Technology II	3				
MET 350	Applied Fluid Mechanics	3				
MET 310	Computer-Aided Mach. Design	3				
MET 344	Material II	3				
EET 116	Electrical Circuits	4				
CPT 140	Programming Constructs Lab	3				
MET 328	CAD/CAM for Mech. Design	3				
MET 384	Instrumentation	3				
OLS 252	Hum. Behavior in Organizations	3				
TCM 370	Oral Practicum Tech. Managers	3				
IET 350	Engineering Economy	3				
MET 414	Design or Senior Project	3				
ELECT	Humanities Elective	3		?	[if on transfer agreement]	0-3
CHEM C101	Elementary Chemistry I	5				
ELECTIVE	Technical Elective	3		CIMT 245	Computer Aided Tool & Fixture Design [DCT 216]	3
ELECTIVE	Humanities Elective	3				
TOTAL HRS. REPLACED BY ARTICULATION		25-28		TOTAL HOURS APPROVED FOR TRANSFER		58-61
SURPLUS HOURS/HOURS EXCLUDED		33		LESS EXCESS FOR SPECIFIC SUBSTITUTIONS		6
ADD'L HRS. REMAINING FOR COMPLETION		101-04		LESS SURPLUS HOURS NOT COUNTED		27
TOTAL HOURS REQUIRED FOR GRADUATION		129		TOTAL HRS. ACCEPTED TOWARD DEGREE		25-28
				ADD'L HOURS REMAINING FOR COMPLETION		101-04



**Design Technology
Mechanical Specialty
Associate of Applied Science
Ivy Tech Community College – Central Indiana
Academic Year 2005-2006**

Students who earn an associate of applied science in Design Technology with a Mechanical Specialty will have the skills required to adapt to various industrial settings and to respond changes in the work place. This degree prepares students for employment in an industrial setting in the areas of product design, machine design, tool and die design, and various other forms of drafting.

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 st Course in a Series	3		MAT 111
MAT xxx	2 nd Course in a Series	3		MAT 111
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	Statics	3		MAT 121
DSN 225	Portfolio Preparation	3		Successful completion of 24 hrs of coursework in the DSN program
TEC 102	Technical Graphics	3		ENG 024, ENG 031, MAT 044
DSN 104	Mechanical Graphics	3		DSN 103
DSN 214	Kinematics of Machinery	3		DSN 104, MAT 121, co-req: DSN 222
DSN 217	Design Process and Applications	3		DSN 104, co-requisite DSN 222
DSN 222	Strength of Materials	3		DSN 221
TEC 101	Processes and Materials	3		ENG 024, ENG 031, MAT 044
DSN 201	Schematics	3		DSN 103, TEC 102,
DSN 216	Jig and Fixture Design	3		DSN 104, TEC 101
DSN 227	Geometric Dimensioning and Tolerance	3		TEC 102
MTT 103	Milling Processes I	3		None

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
COM 101	Fund. of Public Speaking	3
DSN 104	Mechanical Graphics	3
DSN 227	Geometric Dimensioning and Tolerancing	3
MTT 103	Milling Processes	3
DSN 106	Descriptive Geometry	3
MAT 121	Geometry/Trigonometry	3
Total Credits		18

Semester 3		Credits
DSN 201	Schematics	3
DSN 216	Jig and Fixture Design	3
DSN 220	Advanced CAD	3
DSN 221	Statics	3
PHY 101	Physics I	4
Total Credits		16

Semester 4		Credits
DSN 217	Design Process & Applications	3
DSN 222	Strength of Materials	3
DSN 214	Kinematics of Machinery	3
Xxx xxx	HUM/SOC SCI Elective	3
DSN 225	Portfolio Preparation	3
Total Credits		15

Schedule of Semester Course Offerings

Course Number and Name	Fall		Spring		Sum	
	D	E	D	E	D	E
DSN 104 Mechanical Graphics	X			X		
MTT 103 Milling Processes	X	X	X	X	X	X
DSN 201 Schematics	X			X		
DSN 216 Jig and Fixture Design	X			X		
DSN 217 Design Process & Applications		X	X			
DSN 103 CAD Fundamentals	X	X	X	X	X	X
DSN 106 Descriptive Geometry			X	X		X
DSN 220 Advanced CAD	X	X		X	X	
DSN 221 Statistics	X			X		
DSN 222 Strength of Materials		X	X			
TEC 101 Processes and Materials		X	X			
TEC 102 Technical Graphics	X	X	X	X	X	X
DSN 214 Kinematics of Machinery		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		