PURDUE UNIVERSITY NORTH CENTRAL

IVY TECH COMMUNITY COLLEGE NORTH CENTRAL

AGREEMENT BETWEEN IVY TECH COMMUNITY COLLEGE AND PURDUE NORTH CENTRAL

FOR THE TRANSFER OF CREDITS EARNED IN THE ASSOCIATE OF SCIENCE DEGREE IN NANOTECHNOLOGY INTO THE BACHELOR OF SCIENCE DEGREE IN ENGINEERING TECHNOLOGY

The purpose of this agreement is to provide a seamless transfer of credits earned in the Associate of Science Degree in Nanotechnology from Ivy Tech Community College into the Bachelor of Science Degree Engineering Technology from PNC. The faculty of both institutions have worked together to develop the attached list of course equivalencies, requirements for the associate degree and requirements for completion of the bachelor's degree.

Students will have two transfer paths available at Purdue North Central. Students who are interested in electronics may transfer into the BS-ET Degree's ECET Option. On the other hand, students whose interests lie elsewhere may transfer into the BS-ET Degree's Interdisciplinary Option.

This agreement becomes effective in Fall 2010. ITCC coursework that is not listed in this agreement will be evaluated by PNC's Engineering Technology faculty to determine how the ITCC courses will be transferred to Purdue credits.

This agreement will be reviewed every three years by the faculty of both institutions, but may be reviewed at any time upon request by either institution. Both institutions agree to keep one another informed of any curriculum changes as they occur.

While the purpose of this agreement is to maximize transfer opportunities for students, limits may be placed on courses accepted under the provisions of this agreement, should a student subsequently decide to change majors into a program not covered by this agreement.

For Purdue North Central

Christopher J. Smith — 12/2/09 (Date)
ECET Program Coordinator

Thomas F. Brady — 12/4/09 (Date)
Engineering Technology Department Chair

Larryl K. Matthews — 12/3/09 (Date)
Dean, College of Engineering & Technology

Karen Schmid — 12/10/09 (Date)
Vice-Chancellor for Academic Affairs

James B. Dworkin — 1/5/10 (Date)
Chancellor

For Ivy Tech Community College

David Brinkruff — 11/30/09 (Date)
Dean, School of Applied Science & Engineering Technology

Chuck Philip — 12/04/09 (Date)
Vice-Chancellor, Academic Affairs

Virginia Calvin — 11/23/09 (Date)
Chancellor

Ivy Tech Community College AS in Nanotechnology
for Transfer into
PNC Bachelor of Science in Engineering Technology - ECET Option

Ivy Tech Community College			Purdue North Central Equivalency		
Course No.	**Course Title**	**Cr**	**Course No.**	**Course Title**	**Cr**
COMM 101	Fundamentals of Public Speaking	3	COM 11400	Fundamentals of Speech	3
CHEM 105/111	Chemistry I	4 to 5	CHEM 11100	Chemistry I	4
ENGL 111	English Composition	3	ENGL 10100	English Composition II	3
ENGL 211	Technical Writing	3	ENGL 42100	Technical Report Writing	3
IVYT 1XX	First Year Seminar	1	ECET 19600	Introduction to ECET Projects	2
MATH 136	College Algebra	3	MATH 15300	Algebra & Trigonometry I	3
MATH 137	Trigonometry with Analytic Geometry	3	MATH 15400	Algebra & Trigonometry II	3
PHYS 101	Physics I	4	PHYS 22000	General Physics I	4
XXXX XXX	Humanities/Social Sciences Elective	3	XXXX XXXXX	Humanities / Social Studies Elective	3
XXXX XXX	Science/Technology Electives	6 to 8	XXXX XXXXX	Science/Technology Electives	6 to 8
	TOTAL CREDITS	**33-36**		**TOTAL CREDITS**	**34-36**
	GENERAL EDUCATION			**GENERAL EDUCATION**	
NANO 101	Fundamentals of Nanotechnology I	3	ECET XXXXX	ECET Elective	3
NANO 102	Fundamentals of Nanotechnology II	3	ECET XXXXX	ECET Elective	3
NANO 201	Nanoelectronics	3	ECET XXXXX	ECET Elective	3
NANO 211	Intro to Materials Characterization	3	ECET XXXXX	ECET Elective	3
NANO 221	Nanoscience - Specialized Areas	3	ECET XXXXX	ECET Elective	3
NANO 231	Nanomaterials	3	ECET XXXXX	ECET Elective	3
NANO 241	Nanoscience Manufacturing	3	ECET XXXXX	ECET Elective	3
NANO 251	Micro and Nano Fabrication	5	ECET XXXXX	ECET Elective	5
NANO 271	Thin film deposition	3	ECET XXXXX	ECET Elective	3
NANO 299	Nanoscience Internship	2	ECET XXXXX	ECET Elective	2
	TOTAL CREDITS	**31**		**TOTAL CREDITS**	**31**
	PROFESSIONAL / TECHNICAL CORE			**PROFESSIONAL / TECHNICAL CORE**	
	TOTAL CREDITS	**64-67**		**TOTAL CREDITS**	**65-67**

Ivy Tech Community College AS in Nanotechnology
for Transfer into
PNC Bachelor of Science in Engineering Technology - ECET Option

Required Additional Courses for the Bachelor's Degree

Course Number	Course Title	Credits
CGT 11000	Technical Graphics Communications	3
ECET 10700	Introduction to Circuit Analysis	4
ECET 10900	Digital Fundamentals	3
ECET 15700	Electronics Circuit Analysis	4
ECET 15900	Digital Applications	4
ECET 20700	AC Electronics Circuit Analysis	4
ECET 20900	Introduction of Microcontrollers	4
ECET 23100	Electrical Power and Controls	4
ECET 25700	Consumer Power Electronics	4
	Computer Programming Elective	3
Technical Electives (2)	Any Technology, Business, Economics or Management Course	6
	TOTAL CREDITS PROFESSIONAL / TECHNICAL CORE	**43**
MA 22300	Introductory Analysis I	3
MA 22400/STAT 30100	Introductory Analysis II or Elementary Statistical Methods	3
	Humanities/Social Science Elective	3
C/E/H/SS Electives (2)	Communications, English, Humanities or Social Science Elective	6
	TOTAL CREDITS GENERAL EDUCATION CORE	**15**
	TOTAL ADDITIONAL CREDITS FOR PNC BACHELOR'S DEGREE	**58**
	TOTAL CREDITS FROM IVY TECH ASSOCIATE DEGREE	**64-67**
	TOTAL CREDITS REQUIRED FOR BACCALAUREATE DEGREE	**122-125**

Ivy Tech Community College AS in Nanotechnology
for Transfer into
PNC Bachelor of Science in Engineering Technology - Interdisciplinary Option

Required Additional Courses for the Bachelor's Degree

Course Number	Course Title	Credits
IET 10400	Industrial Organization	3
IET 30100	Cost Evaluation & Control	3
IET 36400	Total Quality Management	3
IET 45100	Monetary Analysis for Industrial Decisions	3
MET 45100	Manufacturing Quality Control	3
OLS Selectives (2)	OLS 33100 and 37800	6
Technical Electives (4)	Any Technology, Business, Economics or Management Course	12-16
	TOTAL CREDITS PROFESSIONAL / TECHNICAL CORE	**33-37**
C/E/H/SS Electives (4)	Communications, English, Humanities or Social Science Elective	12
ENGL 10200	English Composition II	3
MA 22300	Introductory Analysis I	3
MA 22400	Introductory Analysis II	3
PHYS 22100	General Physics II	4
STAT 30100	Elementary Statistical Methods	3
	TOTAL CREDITS GENERAL EDUCATION CORE	**28**
	TOTAL ADDITIONAL CREDITS FOR PNC BACHELOR'S DEGREE	**61-65**
	TOTAL CREDITS FROM IVY TECH ASSOCIATE DEGREE	**64-67**
	TOTAL CREDITS REQUIRED FOR BACCALAUREATE DEGREE	**125-132**