Longwood University/Old Dominion University ARTICULATION AGREEMENT 2011-2012

Bachelor of Science in Physics to a Bachelor of Science in Electrical Engineering

	Longwood University B.S. degree in Physics	de la constanta de la constant	Old Dominion University B.S. degree program in Electrical Engineering					
·····	Maj	or-*** require C- or better for transfer		Major				
CHEM	111	***Fundamental Chemistry I	4	CHEM	121/ 122N	Foundations of Chemistry	4	
CHEM	112	***Fundamental Chemistry II	4	CHEM	123/ 124N	Foundations of Chemistry	4	
PHYS	201	***University Physics I	4	PHYS	231N	University Physics	4	
PHYS	202	***University Physics II	4	PHYS	232N	University Physics	4	
MATH	261	***Calculus I	4	MATH	211	Calculus I	4	
MATH	262	***Calculus II	4	MATH	212	Calculus II	4	
MATH	361	*** Calculus III	4	MATH	312	Calculus III	4	
MATH	362	***Differential Equations	3	MATH	307	Ordinary Differential Equations	3	
CMSC	204	***Intro Programming	3	CS	150	Problem Solving and Programming I	3	
PHYS	260	Introduction to Experimental Design	2	PHYS	2ELE	Elective	2	
PHYS	321	Modern Physics I	3	PHYS	323	Modern Physics I	3	
PHYS	324	Thermodynamics	3	PHYS	454	Thermal and Statistical Physics	3	
PHYS	352	Mechanics	3	PHYS	319	Analytical Mechanics	3	
PHYS	332	Electricity and Magnetism	3	PHYS	320	Intro to Electromagnetic Theory (substitute for ECE 323)	3	
PHYS	331	AC/DC Circuits	4	EET	350	Combination of PHYS 341+ 331= EET 350 (substitute for ENGN 110)	4	
PHYS	341	Electronics	4	EET	350	Combination of PHYS 341+ 331= EET 350 (substitute for ECE 201)	4	
PHYS	ELE	Electives (Please see Longwood catalog for list of applicable courses)	6	PHYS	ELE	Electives	6	
		Total in Major	62	alamida iddilik oʻya bilikada idalida dara asaminas moqras qoʻya qoʻyo qoʻy		Total in Major	62	
atematical del del del del del del del del del de		General Education	-			General Education		
*ENGL	150	Writing and Research	3	ENGL	110C	English Composition	3	
ART Achieveme nt	REQ	One from ART 125, 160, or THEA 101	3	FPAP	1REQ	Human Creativity Way of Knowing	3	
ENGL	REQ	Choose one literature course from ENGL 202, 201, or 203	3	LIT	1REQ	Literature Way of Knowing	3	
HIST	100 or 110	Western Civilization	3	HISP	1REQ	Interpreting the Past Way of Knowing	3	
Social Science	REQ	Select one from courses listed in Longwood catalog	3	SSCP	1REQ	Human Behavior Way of Knowing	3	
FORGN LANG	REQ	FREN 101, SPAN 201 OR GERM 201	3	FLP	1REQ	Foreign Language	3	
PHED or RECR	101	Health / Physical Education	2	PE	1ELE	Elective	2	
LSEM	100	Longwood Seminar	1	UNIV	100	University Orientation	1	
DIVERSITY	REQ	Select one from courses listed in Longwood catalog	3		ELE pr REQ	Elective or General Education Requirement	3	
CMSC/ MATH	350	Ethics in Math or Computer Science	3	GNRL	3ELE	Upper Division Elective (substitute for ENMA 480)	3	
ENGL	400	Adv Writing Seminar	3	ENGL	327W	Advance Composition (substitute for ENGL 231C)	3	
	Total Additional General Education			Total Additional General Education			30	
	iota	ai Additional General Education	30		otal Addit	donar General Education		

		Additional Requirements - ODU	
ECE	200	Engineering Analysis Tools	3
ECE	241	Fundamentals of Computer Engineering	4
ECE	202	Circuits, Signals & Linear Systems	3
ECE	287	Fundamental Circuits Lab	2
ECE	313	Electronic Circuits	4
ECE	303	Intro to Electrical Power	3
ECE	332	Microelectronic Materials & Processes	3
ECE	381	Discrete-time Signal Processing	3
ECE	304	Probability, Statistics, & Reliability	3
ECE	387	Microelectronics Fabrication Lab	3
ECE	485W	Electrical Engineering Design I	3
ECE	486	Prep to ECE Design II	1
ECE	4XX	Technical Elective I	3
ECE	4XX	Technical Elective II	3
ECE	4XX	Technical Elective III	3
ECE	4XX	Technical Elective IV	3
ENGN	401	FE Review	1
ECE	487	ECE Design II	2
	Total	Credits to be Taken at ODU	50
	Tota	l Transfer Credits in Major	62
	Total	Credits in General Education	30
	Total Cre	dits Earned for Dual B.S. Degree	142

Student must earn a grade of C- or better from Longwood to transfer courses to Old Dominion University.	Students must complete at least 32
credit hours at Old Dominion University to receive a baccalaureate degree from the university.	

Signature

Dr. Melissa Rhoten

Chair, Department of Chemistry & Physics

Longwood University

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Dr. Michelle Parry

Director, Dual Degree and Physics Program

Longwood University

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Dr. Charles Ross

Dean, Cook-Cole College of Physics

Longwood University

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8/29/2011

Dr. Ken Perkins

Interim Vice President, Academic Affairs

Longwood University

Signature

Dr. Shirshak Dhali

Chair, Batten College of Engineering and

Technology (Electrical & Computer Engineering)

Old Dominion University

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Date

Dr. Oktay Baysal

Dean, Batten College of Engineering and

Technology

Old Dominion University

Signature

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Dr. Carol Simpson

Provost and Vice-President, Academic Affairs

Old Dominion University

Electrical Engineering Schedule

LU Physics + ODU Electrical Engineering (Total Credits Listed-50)

Fall 1 st Semester ODU (7 th semester	credits	Spring 2 nd Semester ODU (8 th semester	area constant
LU)		LU)	THE STATE OF THE S
ECE 200 – Engineering Analysis Tools	3	ECE 304 – Probability, Statistics and	3
ECE 241 – Fundamentals of Computer	4	Reliability (Pre-re: MATH 212)	
Engineering (Pre-re: MATH 211, CS		ECE 313 – Electronic Circuits (Pre-re:	4
150)		ECE 202; Pre/Co-re ECE 241)	
ECE 202 – Circuits, Signals and Linear	3	ECE Technical Elective	3
Systems (Pre-re: ECE 201)		ECE Technical Elective	3
ECE 287 – Fundamental Circuits Lab	2		
(Pre-re: ECE 201, CS 150; Co-re: ECE			The state of the s
202)	No. of Particular Control of Particular Cont		1000
* Particular and the state of t	A. C.		
	100		
Total	12	Total	13
	with	BS Physics LU	
Fall 3 rd Semester ODU		Spring 4 th Semester ODU	
ECE 485W – Electrical Engineering	3	ECE 487 – ECE Senior Design II (Pre-re:	2
Design I (Pre-re: ECE 313; Pre/Co-re:		ECE 486)	o de la companya de l
ECE 303, 304, 332)	Table and the same of the same	ECE 387 – Microelectronics Fabrication	3
ECE 303 – Intro to Electric Power (Pre-	3	Lab (Pre-re: ECE 332)	***************************************
re: ECE 201)	**************************************	ECE Technical Elective	3
ECE 332 – Microelectronic Materials	3	ECE Technical Elective	3
and Processes (Pre-re: ECE 202)		ENGN 401 – FE Review	1
ECE 381 – Intro to Discreet Time Signal	3		Ammunication
Processing			
ECE 486 – Prep for ECE Senior Design II	1		and a manife Com
(Co-re: ECE 485W)			
		To an analysis of the second s	
	and the second		
Total	13	Total	12