Bachelor of Science in Engineering Physics, DSU

Master of Science in Electrical and Computer Engineering, UD

Policy

1. Delaware State University (DSU) and the University agree to follow the connected degree curriculum delineated in this document, which will allow qualified students to earn a Bachelor of Science in Engineering Physics degree from Delaware State University and a Master of Science in Electrical and Computer Engineering degree from the University of Delaware.

2. Both institutions will cooperate toward developing, disseminating, and presenting the articulated program information to students.

3. DSU and UD will strive to create academic and co-curricular opportunities with DSU students selected for this program. This will include co-advisement by DSU-UD academic advising staff and other curricular/co-curricular activities such as: summer internships, research opportunities, invitations to select College and Department level events; and access to RISE Program services.

4. Delaware State University will develop and maintain a selection process for students who express an interest in this articulated degree that may involve achieving grades in specified courses, participation in a “first summer” experience, etc. Staff from the UD Electrical and Computer Engineering department will be jointly involved in the selection process.

5. Students will be accepted into the Master of Science in Electrical and Computer Engineering program at the University of Delaware under these conditions: completion of all articulated credits for the Bachelor of Science degree in Engineering Physics – Electrical Engineering concentration (96 credits) at DSU and earning a minimum cumulative GPA of 3.3. Upon the sole discretion of the Electrical and Computer Engineering Department at the University of Delaware, those who fail to meet the stated requirements may still be admitted based upon other appropriate strengths. DSU will provide confirmation of the completion of articulated coursework upon student’s final semester of coursework at DSU.

6. All articulated course credits earned at the University of Delaware with a grade of C or better will be accepted at Delaware State University for transfer and credit toward the Bachelor of Science in Engineering Physics degree according to the articulation agreement. Delaware State University requires 124 credits for the Bachelor of Science in Engineering Physics degree; therefore, a minimum of 28

credits will typically need to be transferred from the University of Delaware to meet this requirement. For this program, DSU's last 30 credit hours will be waived, and the transfer of these courses is under the discretion of the DSU's Dean for Agriculture, Science and Technology and the DSU Registrar.

7. Students who have attended a college or university other than DSU and transferred credits to DSU in pursuit of the bachelor's degree program will be evaluated on a case-by-case basis for eligibility into this program. In rare cases, students may be required to take additional courses to address any eligibility concerns. It is expected that students will complete all coursework in the UD portion of the agreement at UD.

8. The 6 credits of dual-counted UG/Master's coursework taken at UD must be completed with a B- or better grade to count toward the Master's degree.

9. Students intending to participate in this articulation program should complete the UD Graduate Admissions application during the Spring of their third year.

10. Students are subject to all specific policies pertaining to the Master of Electrical and Computer Engineering program at UD governed by the rules for the thesis or non-thesis option. Choosing the thesis option may extend time to degree completion. Matriculated students will be assigned an academic advisor upon matriculation at UD.

11. Students are subject to all the policies and procedures of both institutions and the specific policies of this articulation agreement. This includes applying for graduation at Delaware State University. Students must have earned the Bachelor's degree at DSU prior to applying for graduation at the University of Delaware.

12. Delaware State University will provide a letter when the Bachelor's degree requirements have been met. The letter will be required for the students to file an Application for Advanced Degree for the Master of Science Degree in Electrical and Computer Engineering at UD. Students will provide, via DSU, an official transcript to the University of Delaware Graduate College once the bachelor's degree has been awarded.

13. This program is based on the present curricula contained in this document and it is effective as of the date of the final signature and shall remain in place through May 31, 2027. This program may be terminated in writing by either party with at least three months' notice. In such an event, students already accepted into the program by the date of termination will be permitted to progress through the program.

14. Changes made to the Delaware State University Engineering Physics curriculum articulated in this document will be evaluated by the Department of Electrical and

Computer Engineering at the University of Delaware to ensure the suitability of any curriculum changes for the connected degree program. Any such changes by Delaware State University and acceptance of those changes by the University of Delaware will be documented in an addendum to this agreement

15. Both institutions reserve the right to modify the programs as deemed necessary and agree to inform the appropriate individuals of said changes.

16. Students who apply to this program are responsible for all tuition, fees, and living expenses that are applicable to their curriculum and enrollment. These charges may be partially or wholly reduced by scholarships, grants, or other financial tools.

CONNECTED DEGREE CURRICULUM

Suggested Course Sequence

Bachelor's Degree Program: Bachelor of Science in Engineering Physics, Electrical Engineering conc., DSU
Master's Degree Program: Master of Science in Electrical and Computer Engineering, UD

FRESHMAN FALL SEMESTER (DSU)			**SENIOR FALL SEMESTER (UD)**		
Course	**Course Name**	**CR**	**Course**	**Course Name**	**CR**
PHYS 201	General Physics I	4	ELEG 305	Signals and Systems *(Signals and Systems, ENGR 302 DSU) (Transfer)*	4
MTSC 251	Calculus I	4	ELEG 498	Senior Design I *(Introduction to Research I, PHYS 451 DSU, DSU Capstone) (Transfer)*	3
PHYS 200	Ana. and Quant. Analysis	3	ELEG/CPEG* 6XX/8XX	UD Dual Count (MS) Course *(Technical Elective I, EENGR XXX DSU) (Transfer)*	3
ENGL 121	Introduction to Composition I (8-weeks)	2	XXXX XXX	Social Science Elective *(Transfer)*	3
ENGL 122	Introduction to Composition II (8-weeks)	2	XXXX XXX	Arts and Humanities Elective *(Transfer)*	3
PHYS 191	University Seminar I	1			
	Total Credits	**16**		**Total Credits**	**16**
FRESHMAN SPRING SEMESTER (DSU)			**SENIOR SPRING SEMESTER (UD)**		
Course	**Course Name**	**CR**	**Course**	**Course Name**	**CR**
PHYS 202	General Physics II	4	ELEG 310	Random Signals and Noise *(Technical Elective II, XXXX XXX DSU) (Transfer)*	3
MTSC 252	Calculus II	4	ELEG 499	Senior Design II *(Introduction to Research II, PHYS 418 DSU, DSU Capstone) (Transfer)*	3
ENGL 124	Intro to Speech and Composition IV (8-weeks)	2	ELEG/CPEG* 6XX/8XX	UD Dual Count (MS) Course	3

				(Technical Elective III DSU EENGR XXX) (Transfer)	
PHYS 192	University Seminar II	1	XXXX XXX	Arts and Humanities Elective *(Transfer)*	3
PHYS 220	Scientific Programming	3			
KINE 100	Lifetime Fit. and Wellness	2			
	Total Credits	**16**		**Total Credits**	**12**
SOPHOMORE FALL SEMESTER (DSU)			**MASTER'S DEGREE FIRST SEMESTER (UD)**		
Course	**Course Name**	**CR**	**Course**	**Course Name**	**CR**
PHYS 313	Mechanics I: Statics	3	ELEG/CPEG* 6XX/8XX or ELEG/CPEG 869	Master's Degree Course or Master's Thesis	3
CHEM 101	Gen. & Elem. Chemistry I	4	ELEG/CPEG* 6XX/8XX	Master's Degree Course	3
ENGR 210	Digital Logic Design	4	ELEG/CPEG* 6XX/8XX	Master's Degree Course	3
MTSC 313	Linear Algebra	3	ELEG/CPEG* 6XX/8XX	Master's Degree Course	3
ENGL XXX	World Literature Elective	3			
	Total Credits	**17**		**Total Credits**	**12**
SOPHOMORE SPRING SEMESTER (DSU)			**MASTER'S DEGREE SECOND SEMESTER (UD)**		
Course	**Course Name**	**CR**	**Course**	**Course Name**	**CR**
PHYS 314	Mechanics II: Dynamics	3	ELEG/CPEG* 6XX/8XX or ELEG/CPEG 869	Master's Degree Course or Master's Thesis	3
ENGR 205	Electrical Circuit Analysis	4	ELEG/CPEG* 6XX/8XX	Master's Degree Course	3
MTSC 253	Calculus III	4	ELEG/CPEG* 6XX/8XX	Master's Degree Course	3
ENGL 123	Intro to Composition and Speech III (8-weeks)	3	ELEG/CPEG* 6XX/8XX	Master's Degree Course	3
	Total Credits	**14**		**Total Credits**	**12**
JUNIOR FALL SEMESTER (DSU)			***Refer to UD Graduate Catalog for specific course requirements.**		
Course	**Course Name**	**CR**			
PHYS 341	Electricity and Magnetism I	3			
ENGR 309	Electronic Circuit Analysis	4			
PHYS 305	Thermal Physics	3			
PHYS 361	Modern Physics	4			
MTSC 351	Differential Equation	3			

	Total Credits	**17**			
JUNIOR SPRING SEMESTER (DSU)					
Course	**Course Name**	**CR**			
PHYS 342	Electricity & Magnetism II	3			
ENGR 342	Materials Science for Engineers	4			
ENGR 340	Solid State Electronics	3			
GLOB 395	Global Societies	3			
XXXX XXX	World History Elective	3			
	Total Credits	**16**			
	TOTAL DSU UG CREDITS	**96**		**TOTAL UD CREDITS**	**52**
				TOTAL DUAL DEGREE CREDITS	**148**