

Name: _____

PSU ID: _____

Dual Degree Courses for Engineering Majors***The Pennsylvania State University****Dual Degree Institution: Slippery Rock University**

PSU Course	Credits	Course Title	PSU Majors	Dual Degree Inst. Course	Credits	Grade
BIOL 141, 142	3, 1	Physiology and Lab	BIO E, elective for E SC, I E, M E			
CAS 100	3	Effective Speech	ALL	COMM 200	3	
CHEM 110	3	Chemical Principles I	ALL	CHEM 107	3	
CHEM 111	1	Experimental Chemistry I	ALL except AERSP, M E	CHEM 111	1	
CHEM 112	3	Chemical Principles II	BIOE, CH E, elective for E SC, I E, M E, ALL EMS except MNG E	CHEM 108	3	
CHEM 113	1	Experimental Chemistry II	BIOE, CH E, MATSE	CHEM 112	1	
CHEM 210	3	Organic Chemistry I	BIOE, CH E, MATSE(PLMSE), ENENG	CHEM 201	3	
CHEM 212, 213	3, 2	Organic Chemistry II and Lab	BIOE, CH E, MATSE(PLMSE)	CHEM 202, 212	4	
CMPEN 270	4	Introduction to Digital Systems & Lab	CMPEN, E E, I E	No Equivalent	---	
CMPSC 121, 122	3, 3	Intermediate Programming	CMPEN	No Equivalent	---	
CMPSC 201	3	Computer Programming for Engineers	ALL except B E, CH E, CMPEN	CPSC 140	3	
E E 210	4	Circuits and Devices	BIOE(EE option), CMPEN, E E, E SC	PHYS 325	3	
E MCH 211	3	Statics	ALL except CH E, CMPEN, MATSE (PLMSE), and ENENG	PHYS 314	3	
E MCH 212	3	Dynamics	ALL except CH E, CMPEN, E E, MATSE (PLMSE) and ENENG	PHYS 315	3	
E MCH 213	3	Strength of Materials	ALL except CH E, CMPEN, E E, ENVSE, MATSE (PLMSE) and ENENG	No Equivalent	---	
ECON 002 or 004	3	Intro. Microecon. or Macroecon. Analysis and Policy (GS)	ALL	ECON 201 or 202	3	
EDSGN 100	3	Introduction to Engineering Design	ALL except CMPEN, ENVSE, MATSE, PNG E and ENENG	PHYS 140, 141	3	
ENGL 015	3	Rhetoric and Composition	ALL	ENGL 101	3	
ENGL 202C	3	Effective Writing: Technical Writing		ENGL 103	3	
GEO SC 001	3	Physical Geology	C E, PNG E, ENVSE, MNG E	EGEO 101	3	

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MATH 140	4	Calculus and Analytic Geometry I	ALL	MATH 225	4	
MATH 141	4	Calculus and Analytic Geometry II		MATH 230	4	
MATH 220	2	Matrices	ALL except B E, CH E, PNG E, ENENG	MATH 240	3	
MATH 230	4	Calculus and Vector Analysis	ALL except C E, ENVSE, MNG E	MATH 231	4	
MATH 251	4	Ordinary and Partial Differential Equations	ALL	MATH 301 PHYS 331	6	
M E 201/300	3	Introduction to Thermal Science/ Engineering Thermodynamics I	ALL except CH E, CMPEN, E E, E SC, MNG E and ENENG	PHYS/CHEM 375	3	
PHYS 211	4	General Physics (Mechanics)	ALL	PHYS 211	4	
PHYS 212	4	General Physics (Electricity and Magnetism)		PHYS 212	4	
PHYS 213	2	Fluids & Thermodynamics	AERSP, E E, E SC, PNG E, MNG E	PHYS 213	3	
PHYS 214	2	Waves & Quantum Physics	ALL except B E, C E, I E, ENVSE, PNG E, MNG E, and ENENG	PHYS 213	3	
STAT 401/ 418	3	Experimental Methods/ Probability	C E, CMPEN, E E	MATH 307	3	
General Education Electives			ALL			
Arts Electives (GA)	6	e.g. Architecture, Art History, Integrative Arts, Landscape Architecture, Music, Theatre Arts				
Health (GHA)	3	Health Education and Exercise and Sport Activities				
Humanities Electives (GH)	6	e.g. American Studies, Classics, History, Humanities, Multi-Ethnic Studies, Philosophy, Religious Studies				
Social & Behavioral Science Elective (GS)	3	e.g. Anthropology, Human Development, Political Science, Psychology, Sociology	PNGE, MNG E, and ENENG require an ethics elective			

*** College of Engineering (EN) Majors:**

AERSP	Aerospace Engineering	E E	Electrical Engineering
B E	Biological Engineering	E SC	Engineering Science
BIOE	Bioengineering	I E	Industrial Engineering
CH E	Chemical Engineering	M E	Mechanical Engineering
C E	Civil Engineering	NUC E	Nuclear Engineering
CMPEN	Computer Engineering		

***College of Earth and Mineral Sciences (EMS) Majors:**

ENENG	Energy Engineering
ENVSE	Environmental Systems Engineering
MATSE	Material Science and Engineering
(PLMSE)	Polymer Science and Engineering
	Option of MATSE
MNG E	Mining Engineering
PNG E	Petroleum and Natural Gas Engineering