

Transfer Program-to-Program Articulation



Harrisburg Area Community Engineering (#4120)

Drexel University
Materials & Science Engineering

REQUIREMENT	COURSE	CRS	REQUIREMENT	COURSE	CRS
Year 1 Fall			Year 1 Fall		
Computer-Aided Drafting	CAD 154	3	Transfer General		
And Design			Free Elective	TGFE 099	3
General Inorganic Chemistry	CHEM 101	4	General Chemistry	CHEM 101	3.5
English Composition I Engineering & Engineering	ENGL 101	3	Composition and Rhetoric I Introduction to Engineering	ENGL 101	3
Technology Orientation	ENGR 102	2	Design & Data Analysis	ENGR 111	3
Calculus I	MATH 121	4	Calculus I	MATH 121	4
	Credits	16		Credits 1	6.5
Year 1 Spring			Year 1 Spring		
Effective Speaking	COMM 101	3	Techniques of Speaking	COM 230	3
Technical Writing	ENGL 104	3	Technical Communication	COM 310	3
Calculus II MATH 122	4		Calculus II and III	MATH 122 &	
				Math 123	8
General Inorganic/	CUEM 100	4	Compared Champinhar II	CUEM 100	4 -
Qualitative Analysis Social Science Elective	CHEM 102	4 3	General Chemistry II General Ed Elective	CHEM 102 -	4.5 3
Social Science Elective	ELECTIVE Credits	•	General Ed Elective	Credits 2	•
	Credits	17		Credits 2	1.5
Year 2 Fall			Year 2 Fall		
Statics	ENGR 213	3	Statics	MEM 202	3
Calculus III	MATH 221	4	Multivariate Calculus	MATH 200	4
Physics for Engineers and			Fundamentals of Physics I	PHYS 101	4
Scientists I	PHYS 211	4			
Differential Equations	MATH 222	4	Differential Equations	MATH 210	4
	Credits	15		Credits	15
Year 2 Spring			Year 2 Spring		
Dynamics	ENGR 214	3	Dynamics	MEM 238	4
Humanities/Arts Elective	ELECTIVE	3	General Ed Elective	ELECTIVE	3
Physics for Engineers &			Fundamentals of Physics		
Scientists II	PHYS 212	4	II and III	PHYS 102 & 201	
Linear Algebra	MATH 220	4	Linear Algebra	MATH 201	4
	Credits	14		Credits	19
	Total Credits	62		Total Credits	72

To receive transfer credit, the courses must be substantially equivalent to courses offered in the desired curriculum at Drexel and you must have completed the courses with a grade of C (C=2.0) or better. The transfer courses listed should be used as a general guide and might not be acceptable for every major at the University. We make every effort to keep this guide current but cannot guarantee that every course will be acceptable for transfer. The number of credits you can transfer will be determined by the academic department once you've been accepted

Transfer Electives:

HACC Chem 102	4 Cr	Chem 102	4.5 Cr	HACC Math 220	4 Cr	Math 201	4 Cr
HACC Bio 101	4 CR	Bio 141	4.5 Cr	HACC Bio 221	4 Cr	Bio 220	3 Cr
HACC Bio 206	4 Cr	ENVS 230	3 Cr	HACC Chem 203	4 Cr	Chem 241	4 Cr
HACC Chem 204	4 Cr	Chem 242	4 Cr	HACC Math 222	4 Cr	Math 210	4 Cr



Harrisburg Area Comm. College Program Study: Engineering (#4120)

Drexel University Program Study: Materials & Science engineering



REQUIREMENT	COURSE	CRS	REQUIREMENT	COURSE	CRS
Year 3 Fall			Year 5 Fall		
Fundamentals of Materials	ENGR 220	4	Statistics and Design of		
First-Year Engineering Design	ENGR 113	3	Experiments	CHE 350	3
Introduction to Civic	CI)/C 101	4	Advanced Materials Laborat		4
Engagement Composition and Rhetoric II	CIVC 101	1	Processing of Metallic Mater Biomedical Materials	MATE 455	4.5 3
Advanced Research and			Biomedical Flaterials		its 14.5
Evidence-Based Writing	ENGL 102	3			
The Drexel Experience	UNIV E101	1	Year 5 Winter		
Career Management and	COOD 101	4	Processing of Ceramics	MATE 345	4.5
Professional Development	COOP 101 Credits	1 13	Electronic and Photonic Properties of Materials	MATE 351	4
	Credits	13	Material Selection for	MAIL 331	7
Year 3 Winter			Industrial Applications	MATE 375	3
Introduction to			Materials Data Analysis	MATE 475	3
Thermodynamics	ENGR 210	3		Cred	its 14.5
Fundamentals of Materials II	MATE 230	4	Vary E Christa / Commen		
Composition and Rhetoric III: Themes and Genres	ENGL 103	3	Year 5 Spring/Summer COOP Experience		
Organic Chemistry I	CHEM 241	4	COOL Experience		
organic oncomes, ,	Credits	14	Year 6 Fall		
			Senior Project Design I	MATE 491	3
Year 3 Spring/Summer			Principles of Microeconomic	ECON 201	4
COOP Experience			Engineering Computational Laboratory	MATE 460	4
Year 4 Fall			Cells, Genetics & Physiology		3
Physical Chemistry and			Cells, Genetics & Physiology		J
Applications III	CHEC 353	4	Laboratory	BIO 108	1
Introduction to Polymers	MATE 214	4		Cred	its 15
Thermodynamics of Materials Structure and Characterization	MATE 240	4	Year 6 Winter		
Of Crystalline Materials	MATE 355	3	Senior Project Design II	MATE 492	3
Mechanical Behavior of Solids	MATE 370	3	Societal Impact Elective	ELECTIVE	4
	Credits		Technical Elective	ELECTIVE	3
			Engineering Ethics	PHIL 315	3
Year 4 Winter	MATE 245	4	Yana C Cardina	Cred	its 13
Kinetics of Materials Processing Polymers	MATE 245 MATE 315	4 4.5	Year 6 Spring Senior Project Design III	MATE 493	3
Defects in Solids	MATE 341	3	Case Studies in Materials	MATE 410	3
Technical Elective	ELECTIVE	3	Technical Elective	ELECTIVE	3
	Credits	14.5			
Year 4 Spring/Summer				Cred	its 9
COOP Experience			Total HACC	credits Transfer	72.0
222. 2.,50000				Drexel Credits Completed	
					107 5
			Total All Cre	aits	197.5