



# Transfer Program-to-Program Articulation



## *Harrisburg Area Community Engineering (#4120)*

## *Drexel University Architectural Engineering – Building Systems*

REQUIREMENT	COURSE	CRS
<b>Year 1 Fall</b>		
Computer-Aided Drafting And Design	CAD 154	3
General Inorganic Chemistry	CHEM 101	4
English Composition I	ENGL 101	3
Engineering and Engineering Technology Orientation	ENGR 102	2
Calculus	MATH 121	4
	Credits	16
<b>Year 1 Spring</b>		
Effective Speaking	COMM 101	3
Technical Writing	ENGL 104	3
Calculus II	MATH 122	4
General Inorganic/Qualitative Analysis	CHEM 102	4
Social Science Elective	ELECTIVE	3
	Credits	17
<b>Year 2 Fall</b>		
Statics	ENGR 213	3
Calculus III	MATH 221	4
Physics for Engineers and Scientists I	PHYS 211	4
Differential Equations	MATH 222	4
Wellness	WELLNESS	1
	Credits	16
<b>Year 2 Spring</b>		
Dynamics	ENGR 214	3
Humanities/Arts Elective	ELECTIVE	3
Physics for Engineers & Scientists II	PHYS 212	4
General Biology	BIO 101	4
	Credits	14

**Total Credits 63**

REQUIREMENT	COURSE	CRS
<b>Year 1 Fall</b>		
Transfer General Free Elective	TGFE 099	3
General Chemistry I	CHEM 101	3.5
Composition and Rhetoric I	ENGL 101	3
Introduction to Engineering Design & Data Analysis	ENGR 111	3
Calculus I	MATH 121	4
	Credits	16.5
<b>Year 1 Spring</b>		
Techniques of Speaking	COM 230	3
Technical Communication	COM 310	3
Calculus II	MATH 122	4
General Chemistry II	CHEM 102	4.5
General Ed Elective	ELECTIVE	3
	Credits	17.5
<b>Year 2 Fall</b>		
Statics	MEM 202	3
Multivariate Calculus	MATH 200	4
Fundamentals of Physics I	PHYS 101	4
Differential Equations	MATH 210	4
No Credit for Wellness		0
	Credits	15
<b>Year 2 Spring</b>		
Dynamics	MEM 238	4
General Ed Elective	ELECTIVE	3
Fundamentals of Physics II and III	PHYS 102 & 201	8
Essential Biology	BIO 141	4.5
	Credits	19.5

**Total Credits 68.5**

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 Bio 101	4 Cr	Bio 141	4.5 Cr
HACC Bio 206	4 Cr	ENVS 230	3 Cr
HACC Chem 204	4 Cr	Chem 242	4 Cr

HACC Math 220	4 Cr	Math 201	4 Cr
HACC Bio 221	4 Cr	Bio 220	3 Cr
HACC Chem 203	4 Cr	Chem 241	4 Cr
HACC Math 222	4 Cr	Math 210	4 Cr



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

### Drexel University Program Study: Architectural Engineering with Building Systems Concentration



#### REQUIREMENT COURSE CRS

##### Year 3 Fall

Introduction to Civil, Architectural And Environmental Engineering	CAEE 202	3
Linear Engineering Systems	ENGR 231	3
Fundamentals of Materials	ENGR 220	4
The Drexel Experience	UNIV E101	1
Career Management and Professional Development	COOP 101	1
First-Year Engineering Design	ENGR 113	3
	Credits	15

##### Year 3 Winter

System Balances and Design In CAEE	CAEE 203	3
Introduction to Thermodynamics	ENGR 210	3
Studio 1- AE	ARCH 191	3
Introduction to Civic Engagement	CIVC 101	1
Introductory Programming For Engineers	ENGR 131	3
Composition and Rhetoric II: Advanced Research and Evidence Based Writing	ENGL 102	3
	Credits	16

##### Year 3 Spring/Summer

COOP Experience

##### Year 4 Fall

Studio 2 – AE	ARCH 192	3
Mechanics of Materials I	MEM 230	4
Introduction to Fluid Flow	CIVE 320	4
Geologic Principles for Infrastructure and Environmental Engineering	CAEE 212	4
Architectural Illumination And Electrical Systems	AE 340	3
	Credits	18

##### Year 4 Winter

Construction Materials	CIVE 250	4
Hydraulics	CIVE 330	3
Introduction to HVAC	AE 220	3.5
Engineering Economic Analysis	CIVE 240	3
Composition and Rhetoric III: Themes and Genres	ENGL 103	3
	Credits	16.5

#### REQUIREMENT COURSE CRS

##### Year 4 Spring/Summer

COOP Experience

##### Year 5 Fall

Architectural Engineering Design I	AE 390	4
Structural Analysis I	CIVE 302	3
Heat Transfer	MEM 345	4
Architecture and Society I	ARCH 141	3
	Credits	14

##### Year 5 Winter

Architectural Engineering Design II	AE 391	4
Structural Design I	CIVE 303	4
Professional Elective	ELECTIVE	3
Architecture and Society II	ARCH 142	3
	Credits	14

##### Year 5 Spring/Summer

COOP Experience

##### Year 6 Fall

Senior Design Project I	CAE 491	3
HVAC Loads	MEM 413	3
Building Envelope Systems	AE 444	3
Structural Analysis of Engineering Systems	CAEE 361	3
	Credits	12

##### Year 6 Winter

Senior Design Project II	CAE 492	3
HVAC Equipment	MEM 414	3
Professional Elective	ELECTIVE	3
Professional Elective	ELECTIVE	3
	Credits	12

##### Year 6 Spring

Senior Design Project III	CAE 493	3
Control Systems for HVAC	AE 430	3
Architecture and Society III	ARCH 143	3
Composition and Rhetoric III Themes and Genres	ENGL 103	3
	Credits	12

Total HACC credits Transfer	68.5
Drexel Credits Completed	129.5

Total All Credits	198.0
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