BCSA General Education (Gen Ed) Requirements

University Requirement 3 units					
99-101	Computing @ Carnegie Mellon	3			
XA7					
76-101	g 9 u Interpretation and Argument	inits			
or 76-101	Advanced First Year Writing: Special Topics (invite only	r) 9			
or choos	two mini courses from the following list:	,			
76-106	Writing about Literature, Art and Culture	4.5			
76-107	Writing about Data	4.5			
76-108	Writing about Public Problems	4.5			
Mathematics & Probability 29 units minimum					
Choose i	wo mathematics courses: 20 units minin	mum			
21-122	Integration and Approximation	10			
21-259 or 21-26	6 Vector Calculus for Computer Scientists	10			
or 21-24	¹ Matrices and Linear Transformations (11)				
Choose	one probability course(c):	num			
15-250	Probability and Computing	12			
21-325	Probability	9			
36-218	Probability Theory for Computer Scientists	9			
36-225	Introduction to Probability Theory	18			
& 36-22	6 Introduction to Statistical Inference				
Science	& Engineering 18 units minin				
Choose t	two science courses from differing departments	ium			
or one s	cience and one engineering course from the following list:				
02-223	Personalized Medicine: Understanding Your Own Genom	e 9			
03-121	Modern Biology	9			
03-125	Evolution	9			
03-132	Basic Science to Modern Medicine	9			
03-133	Introduction to Chemical Engineering	12			
00-100	Introduction to Modern Chemistry I	10			
12-100	Exploring CEE:	12			
	Infrastructure and Environment in a Changing World				
12-201	Geology	9			
18-095	Getting Started in Electronics: An Experiential Approach	9			
18-100	Introduction to Electrical and Computer Engineering	12			
24-101	Fundamentals of Mechanical Engineering	12			
24-231	Environmental Systems on a Changing Planet	10			
& 24-391 Science & Engineering Addendum					
24-358	Culinary Mechanics	9			
27-215	Thermodynamics of Materials	12			
33-114	Physics of Musical Sound	9			
33-120	Science and Science Fiction	9			
33-121	Physics I for Engineering Students *	12			
33-141	Matter and Interactions I *	12			
42-101	Introduction to Biomedical Engineering	12			
42-202	Physiology *	9			
85-219	Biological Foundations of Behavior	9			
Labs:					
02-261	Quantitative Cell and Molecular Biology Laboratory *	Var.			
02-202	Engineering the Materials of the Future *	var.			
27-100	Experimental Physics	12			
00 104		9			
Economic, Political and Social Institutions					
or Cognition, Choice and Behavior 9 units minimum Choose one course from either cateaoru:					
Facha	nia Political and Social Institutions				
10-101	Introduction to Engineering and Public Policy	10			
36-302	Sampling, Survey and Society *	0			
66-221	Topics of Law: Introduction to Intellectual Property Law	9			

70-332	Business, Society and Ethics *	9		
73-102	Principles of Microeconomics	9		
76-425	Rhetoric, Science, and the Public Sphere *	9		
79-101	Making History: How to Think About the Past (and Present)	9		
79-189	History of Democracy: Thinking Beyond the Self	9		
79-237	Women in American History	9		
70-252	Imperialism and Decolonization in South Asia	9		
79-200	History of American Public Policy	9		
79-320	Women, Politics, and Protest	9		
79-321	Documenting Human Rights	ģ		
79-331	Body Politics: Women and Health in America	9		
79-370	Technology in the United States	9		
79-383	The History of Capitalism	9		
79-391	Nations and Nationalisms in South Asia	9		
79-392	Europe and the Islamic World	9		
80-135	Introduction to Political Philosophy	9		
80-130	Social Structure, Public Policy & Ethics	9		
80-244	Medical Ethics	9		
80-324	Philosophy of Economics	9		
80-334/	(335 Social and Political Philosophy	9		
80-348	Health, Human Rights, and International Development	ģ		
84-104	Decision Processes in American Political Institutions	9		
84-110	Foundations of Political Economy	9		
84-275	Comparative Politics	9		
84-310	International Political Economy *	9		
84-322	Nonviolent Conflict and Revolution	9		
84-324	The Future of Democracy	9		
84-352	Diplomagy and Stategraft	9		
84-302	The Politics of Fake News and Misinformation	9		
84-380	US Grand Strategy	9		
84-386	The Privatization of Force	9		
84-387	Remote Systems and the Cyber Domain in Conflict	ģ		
84-389	Terrorism and Insurgency	9		
84-390	Social Media, Technology, and Conflict	9		
84-393	Legislative Decision Making: US Congress	9		
84-402	Judicial Politics and Behavior	9		
84-405	The Future of Wartare	9		
88-281	Topics of Law: 1st Amendment	9		
00-204	Topics of Law: The bill of Rights	9		
<u>Cogniti</u>	on, Choice, and Behavior			
70-311	Organizational Behavior *	9		
80-101	Introduction to Ethics	9		
80-150	Nature of Reason	9		
80-180	Nature of Language	9		
80-221	Philosophy of Social Science	9		
80-270	Philosophy of Mind and Body: Meaning and Doing	ģ		
80-271	Mind and Body: The Objective and the Subjective	9		
80-275	Metaphysics	9		
80-330	Ethical Theory	9		
85-102	Introduction to Psychology	9		
85-104	Psychopathology	9		
85-211	Human Information Processing and Artificial Intelligence *	9		
85-221	Principles of Child Development	9		
85-241	Social Psychology	9		
85-251	Personality	9		
85-261	Psychopathology	9		
85-370	Perception	9		
88-120	Reason, Passion and Cognition	9		
88-230	Human Intelligence and Human Stupidity	9		
* Indicates co-requisites and/or prerequisites required.				

<u>122 units (minimum)</u>

Additional Dietrich College Courses 18 units minimum Complete two non-technical courses. Consult with your BXA advisor to determine the best courses to fulfill this requirement.				
BXA R	equired Courses	36 units		
52-190	BXA Sem. I: Building the Wunderkamm	er 4.5		
	(Spring Mini, Freshman)			
52-291	BXA Sem. II: Transferring Knowledge	4.5		
	(Spring Mini, Sophomore)			

52-392BXA Sem. III: Deconstructing Disciplines (Spring, Junior)952-401BXA Sem. IV: Capstone Project Research (Fall, Senior)952-402BXA Sem. V: Capstone Project Production (Spring, Senior)9