

Class Name	Course Number	Year last taught	Semester offered	Breadth?	Concentration?	Other areas:	Recent Professors:	Majors who took (when):
Prerequisites								
Calculus of Functions of Several Variables	MATH 120	2018-19	both	n/a	n/a	n/a	Mostly grad students	Eric Foster (F16)
Multivariable Calculus for Engineers	ENAS 151 (also APHY 151, PHYS)	2018-19	both	n/a	n/a	n/a	Beth Anne Bennett, Vidvuds Ozolins, James Rolf	
Linear Algebra with Applications	AMTH 222 (also MATH 222)	2018-19	both	n/a	n/a	n/a	Varies	Eric Foster (S17)
Linear Algebra and Matrix Theory	MATH 225	2018-19	spring	n/a	n/a	n/a	Varies	Burke Snowden (F16)
Vector Calculus and Linear Algebra I	MATH 230	2018-19	fall	n/a	n/a	n/a	Patrick Devlin	Hannah Lawrence (F15), Nash Keyes (F17)
Vector Calculus and Linear Algebra II	MATH 231	2018-19	spring	n/a	n/a	n/a	Patrick Devlin	Hannah Lawrence (S16), Nash Keyes (S18)
Introduction to Computing for Engineers and Scientists	ENAS 130	2018-19	spring	n/a	n/a	n/a	Varies	Burke Snowden, Adam Madievsky (S19, with Beth Bennett)
Introduction to Computing and Programming	CPSC 100 (aka "CS 50")	2018-19	fall	n/a	n/a	n/a	Benedict Brown (Yale)/David Malan (Harvard) — they teach together	
Introduction to Programming	CPSC 112	2018-19	spring	n/a	n/a	n/a	Benedict Brown, Yang Yang	Eric Foster (S17)
Core								
Ordinary and Partial Differential Equations with Applications	ENAS 194 (also APHY 194)	2018-19	both	n/a	n/a	n/a	Varies	
Ordinary Differential Equations	MATH 246	2018-19	both	n/a	n/a	n/a	Varies	Eric Foster (F18), Nash Keyes (F18), Burke Snowden (S18)
Probability Theory	S&DS 241 (also MATH 241)	2018-19	fall	n/a	n/a	n/a	Yihong Wu, Winston Lin	Eric Foster (F17), Burke Snowden (F16)
Probability and Statistics	S&DS 238	2018-19	fall	n/a	n/a	n/a	Joe Chang	
Data Analysis	S&DS 361 (also AMTH 361)	2018-19	spring	n/a	n/a	n/a	Varies	
Data Exploration and Analysis	S&DS 230	2018-19	both	n/a	n/a	n/a	Xiaofei (Susan) Wang, Jonathan	Eric Foster (F17), Burke Snowden (S18)
Discrete Mathematics	MATH 244 (also AMTH 244)	2018-19	fall	n/a	n/a	n/a	Ross Berkowitz	Nash Keyes (F18)
Mathematical Tools for Computer Science	CPSC 202	2018-19	fall	n/a	n/a	n/a	Dana Angluin, James Aspnes	Eric Foster (F18)
								***** AS OF 2/19/19, NASH HAS PUT IN ALL COURSES FROM YCPS PAGE, EXCLUDING CORE REQS
AMTH								
Optimization Techniques	AMTH 437 (also ECON 413, EENG)	2018-19	fall	a, b, e	all?		Sekhar Tatikonda	Hannah Lawrence (F18)
Partial Differential Equations	AMTH 247 (also MATH 247, G&G)	2018-19	spring	c	-			
Graphs and Networks	AMTH 462	?	?	e			Dan Spielman	
Science of Complex Systems	AMTH 428 (also E&EB 428, G&G)	2018-19	fall	a?	G&G		Jun Korenaga	
APHY								
Basic Quantum Mechanics	APHY 439 (also PHYS 439)	2018-19	fall	j			Liang Jiang	
Solid State Physics I	APHY 448 (also PHYS 448)	2018-19	fall	j			Sohrab Ismail-Beigi	
Statistical Methods with Applications in Science and Engineering	APHY 470	2018-19	spring	b, j			Sohrab Ismail-Beigi	
ASTR								
Physical Processes in Astronomy	ASTR 320	2018-19	spring	j			Franciscus van den Bosch	Hannah Lawrence (F16)
Computational Methods for Astrophysics	ASTR 420	2018-19	fall	j			Paolo Coppi	
BENG								
Biomedical Image Processing and Analysis	BENG 445	?	?	i				
Multiscale Models of Biomechanical Systems	BENG 458	2018-19	spring	i			Stuart Campbell	
CENG								
Chemical Kinetics and Chemical Reactors	CENG 301	2018-19	spring	k	Engineering		Mingjiang Zhong	Burke Snowden (S18)
Transport Phenomena	CENG 315	2018-19	spring	k	Engineering		Amir Haji Akbari Balou	
(see also MENG, e.g. MENG 361, which CENG people take also)								
I know that CHEM 33x (Physical Chem I and II) also can count but I don't know details								
CPSC								
Algorithms	CPSC 365	2018-19	spring	d	CPSC		Jim Glenn	Eric Foster (S19), Hannah Lawrence (S17)
Advanced Algorithms	CPSC 366	2018-19	spring	d	CPSC		Yang Cai, Dan Spielman	
Parallel Programming Techniques	CPSC 424	2018-19	both	?	CPSC		Andrew Sherman	
Numerical Computation	CPSC 440	?	?	d	CPSC		?	
Introduction to Data Mining	CPSC 445	?	?	h	CPSC		?	
Machine Learning for Biology	CPSC 453	2018-19	fall	?	cpsc, s&ds?		Smita Krishnaswamy	
***should this count? from AMTH FAQ: Sensitive	CPSC 457	2017-18	spring	?	?		Michael Fischer	
Theory of Distributed Systems	CPSC 465	2018-19	spring	d	CPSC		James Aspnes	
Cryptography and Computer Security	CPSC 467	2018-19	fall	?	CPSC		Mariana Raykova	
Computational Complexity	CPSC 468	2018-19	varies		CPSC			
Randomized Algorithms	CPSC 469	2016-17	fall	d	CPSC		James Aspnes	

