Advanced Math Placement Guide: For students with 6 hours of Calc BC credit

Registration	Math 211: Multivariable Calculus		
information for students majoring in one of the following disciplines: • Mathematics (majoring or minoring in)	Description:	This course extends the ideas of differentiation and integration to functions of more than one variable, focusing on computation and integration of the results. It also defines vector-valued functions and investigates the concepts of differentiation and integration in this setting. Applications include optimization of functions of more than one variable and computing the work done by a continuous force field.	
		Fall, Spring, and Summer	
Discribe	Prerequisites:	 The prerequisites are: Six hours of AP credit (a score of 4 or 5 on the AP BC 	
• Physics		exam) or	
 Economics 		• Math 112 or 1122	
Chemistry	Intended audience:	This course is intended for students majoring in one of the following fields:	
 Computer Science 		MathPhysicsEconomics	
	Math 212: Differential Equations		
Note: It is recommended that students check the Mathematics requirements for other departments' majors or future graduate-program requirements.	Description:	This course begins by defining a differential equation with the main objective of the course being to find a solution or set of solutions to a given differential equation. Several families of differential equations are examined and solutions computed when possible. Differential equations are used to model dynamic systems. There will be several applications throughout the course demonstrating how to set up and solve such systems.	
		Fall and Spring	
	Prerequisites:	 The prerequisites are: Six hours of AP BC credit (a score of 4 or 5 on the AP BC exam) or Math 112 or 112Z 	
	Intended audience:	Math 212 is required for students majoring in Applied Math, Applied Math & Stats, and Physics BS degrees.	
	Math 221: Linear Algebra		
	Description:	This course begins with the definition of a matrix and some fundamental operations that can be performed on matrices, such as adding or multiplying two matrices together. Vector spaces are also introduced. A connection is then formed by modeling vector spaces using matrices. Advanced topics involving matrices, such as diagonalization and quadratic forms, eigenvalues and eigenvectors, orthogonalization, and the Gram-Schmidt process are examined. <i>Fall and Spring</i>	

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	Math 221: Lipoar Algobra (continued)		
Ponistration	Math 221: Linear Algebra (continued)		
information for	Prerequisites:	The prerequisites are:	
students		 Six hours of AP BC credit, or Math 112 or 1127 	
majoring in one			
of the following disciplines	Intended audience:	This course is required for students majoring in the Mathematics BA Applied Math BS, and the Applied	
alcolphiloci		Math/Stats BS, as well as the Computer Science BA and	
 Mathematics 		BS.	
(majoring and		Note: Other departments, such as Chemistry and	
minoring in)		Economics, highly recommend that students take one or	
 Physics 		more of the math classes described above if they plan to	
 Economics 		website or advisors for more details.	
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• Cnemistry	Math 275: Honors Linear Algebra and Math 276: Honors Vector Calculus		
Computer Science	Description:	Math 275 and Math 276 provide ambitious math majors with	
Science		Students who complete the full-year sequence fulfill the	
		major requirements for Linear Algebra (Math 221),	
		(Math 250). Math 275 and 276 are more intense than	
Note:		regular versions of these courses, so math majors who elect	
It is recommended		this route should be ready for a serious challenge.	
that students check the Mathematics		Note: If you complete Math 275 without completing Math	
requirements for		complete the sequence in order to get credit for all 3	
majors or future		courses listed above.	
graduate program requirements.		Math 275: Fall	
		Math 276: Spring	
	Prerequisites:	Freshmen who have received:	
		• A score of 5 on the AP Calculus BC exam, or	
		 A score of 7 on the HL IB exam, or Permission of the instructor, see below: 	
		Students, including freshmen, who wish to enroll, must	
		email enroll275@mathcs.emory.edu. Include a screen shot showing your AP or IB text scores	
		chewing your the of 12 tox cooree.	
	Intended audience:	Math 275 and 276 are intended for ambitious math majors,	
		for the challenging material covered. When both courses	
		are completed, students will have access into more	
		auvanced math courses.	