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This presentation will outline how we have integrated applications and expectations from other disciplines directly into the syllabus of our multivariate calculus course at the United States Military Academy. This course is the third in a sequence of four required math courses. The core mathematics program focuses on providing the problem solving and conceptual skills necessary for further required math, science and engineering courses. After providing a brief background about our course, our students, and our faculty, we will discuss our integration of interdisciplinary subjects into the multivariate calculus course. This discussion will include the regular "link-up" with a concurrent core physics course, two Interdisciplinary Lively Application Projects (ILAPs), and a splitting of the course syllabus based on a student's selected major discipline of study. (Received September 15, 2000)