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In this talk we will describe the implementation of an undergraduate Honors College course in Mathematical Ecology offered at Oregon State University. The goals of this course are to attract students with a basic Calculus background to participate in a highly interdisciplinary environment, and to help them develop an appreciation for the use of mathematics in biological applications. The course offers topical lectures, discussions of research papers, interdisciplinary team projects, computational lab assignments, and expository/research based talks by guest faculty from diverse ecological, mathematical and computational fields. All these features provide a fertile environment for the understanding of mathematical concepts in ecology. In its fourth year, this course has led to the creation of other advanced courses in mathematical ecology, and has motivated past students to participate in Oregon State's summer institute (REU) in Ecoinformatics, IGERT program in Ecosystems Informatics, as well as pursue a graduate education in mathematical biology. (Received September 22, 2010)