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Lester F. Caudill* (lcaudill@richmond.edu), Department of Mathematics & Computer Science, 28 Westhampton Way, Univ. of Richmond, VA 23173. *Mathematical Models in Medicine*.

We present two examples of final projects used in the course “Mathematical Models in Biology and Medicine” at the University of Richmond. The first involves modeling the growth of a cancerous tumor and the effects of radiation therapy. The second involves the interaction of two strains of bacteria – differing in their susceptibility to a particular antibiotic, and the subsequent impact of varying levels of use of that antibiotic. (Received September 17, 2013)