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Elena Anne Marchisotto* (elena.marchisotto@csun.edu), 18111 Nordhoff Street, Northridge, CA , and **Michael Cole**. *An On-Line Course to Encourage Prospective Teachers to Develop Habits for Life-Long Learning*. Preliminary report.

We will discuss a technology-based curriculum for a capstone mathematics course that has two main objectives – to help prospective teachers to: 1) develop an appreciation of the diversity of mathematics and the spirit in which it is employed; 2) acquire the habit of life-long learning to increase their understanding of mathematics and to improve their teaching, by showing them how to research and use information from mathematics and mathematics education journals. The course focuses on explorations of the character and origin, as well as historical and modern applications of mathematical concepts. The contributions of various cultures to the field are studied along with the use of mathematical models for physical problems. We will share a variety of class projects that include reading/writing assignments, discussion forums, and quizzes, as well as extensive databases of expository literature. We will provide information on course delivery and assessment. (Received September 13, 2007)