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*Transition to College Mathematics and Statistics* (TCMS) is a problem-based, inquiry-oriented fourth-year capstone course intended for the large number of high school students planning to enter college programs that do not require calculus. Funded by the National Science Foundation, this new and innovative course is accompanied by *TCMS-Tools*, a suite of Java-based, open source software tools including a spreadsheet, a CAS, and dynamic geometry, data analysis, and discrete mathematics tools and specialized apps such as two- and three-dimensional geometric linear programming. The primary goal of this course is to ensure college readiness for students not pursuing degrees in STEM disciplines. This session will highlight findings of the CBMS 2010 Survey with respect to enrollments in first-year undergraduate mathematics courses and the implications for the transition from high school to college mathematics. The focus will be on the design and development of TCMS, its content and priorities, affordances of the curriculum-embedded software, and preliminary evaluation results. (Received September 12, 2012)