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Salvatrice F Keating* (keating@easternct.edu), Department of Mathematics, Eastern Connecticut State University, 83 Windham Street, Willimantic, CT 06226, **Marsha Davis** (davisma@easternct.edu), Department of Mathematics, Eastern Connecticut State University, 83 Windham Street, Willimantic, CT 06226, and **Christian Yankov** (yankovc@easternct.edu), Department of Mathematics, Eastern Connecticut State University, 83 Windham Street, Willimantic, CT 06226. *Mathematics Readiness Assessment and Remediation Using Maple T.A. - A Model for Creating and Implementing Computer-Based Assessment and Remediation.*

Frustration over poor student retention of prerequisite course materials served as the catalyst for creating online "readiness" exams and tutorials. Since fall 2004 online "readiness" exams and tutorials have been administered to Calculus II and Calculus III students. In spring 2007 an online "readiness" exam and tutorial were administered to Calculus I students. As of fall 2007 online "readiness" exams and tutorials will be administered every semester to students enrolled in Calculus I, II or III. In an effort to expand assessment of student learning beyond the three course calculus sequence, an online "readiness" exam and tutorial will be administered in fall 2007 to students enrolled in Intermediate Algebra, a developmental mathematics course designed for students who have had only one year of high school algebra or who have had little success with second year high school algebra. In this paper, the authors provide a model for creating and implementing computer-based assessment and remediation using Maple T.A.

[See <http://www.maplesoft.com/company/publications/articles/view.aspx?SID=4961> for highlights of Keating/Davis calculus assessment.] (Received June 25, 2007)