

1014-F1-901 **Denise LeGrand*** (djlegrand@ualr.edu), UALR Mathematics Dept, 2801 S University Ave,
Little Rock, AR 72204. "*Snap, Pop, Crackle*": *Calculus Online*. Preliminary report.

Following the demand, Calculus online at UALR has evolved from successful online offerings of its prerequisites. It has changed from a 4 semester 3 hour course to a 3 semester 4 hour course with a lab. Offering Calculus with labs online is a challenge but it was met head on, providing lecture videos and notes, online synchronous and asynchronous tutoring, Maple projects, and online quizzes through MapleTA. It is a snap to make the compressed videos on a desktop using a tablet PC. The labs are done in Maple and then emailed to the instructor. They are a snap to grade on the tablet PC and emailed back in no time at all. Online quizzes provide immediate feedback to the student. The course is delivered via WebCT. The first week is orientation, allowing the student time to navigate through and investigate the available technologies and resources posted. Each student must sign a contract that describes the course and their responsibilities. All of the above resources are popped out to the students over the web quickly and efficiently. The students learn software and technology skills that can be carried with them long after the course finishes. The final result is to hopefully crack the surface and dig into a deeper understanding of Calculus visually and intuitively. (Received September 26, 2005)