Concordia is a small Christian university in St. Paul, Minnesota with many first generation college students from inner city public schools. Over the past six years, the math department has developed their own placement exam and review materials to help identify under-prepared students. In addition, we revamped the developmental math courses to offer students a blend of face-to-face instruction and individual computer-aided practice with support and immediate feedback. In this session, two faculty members who have worked on these changes from the beginning will discuss their successes and challenges in meeting the needs of students who are under-prepared to study college math. (Received September 19, 2011)