Bellevue School District Advanced Calculus:

Advanced Calculus is offered for students who have completed and done well in the AP Calculus course. The first semester (BCC Math 126) extends the central ideas of first-year calculus to the polar coordinate system and parametric equations, investigates infinite series and power series and their convergence, and introduces vectors in several dimensions. The second semester (BCC Math 227) extends the derivative and integral to vector-valued functions in several dimensions and functions of several variables.

Transferability:

The Advanced Calculus course covers all of the material in the UW Math 126 course, and some of this material is covered more deeply than is done at the UW. The course also includes the material covered in the first few weeks of UW Math 324. The Advanced Calculus course transfers to the UW as UW Math 126 plus 3 credits of Math 2xx if students have enrolled to receive BCC credit. (I don't know how the UW handles it if students have not enrolled for BCC credit.)

At other universities, this Advanced Calculus year typically gains students credit for one or, more commonly, two terms of mathematics beyond the credits granted for successful completion of the AP Calculus AB test. Even when credit is only given for one additional mathematics course, the students have a head start on the material in the next course. (I got an e-mail last week from one of last year's students who said Boston University gave her credit for 2 additional mathematics courses. In previous years students have received additional credits at MIT and Harvey-Mudd and other elite schools, but each college handles it in their own way.)