The Campus Portal was established in 2003 as a replacement for the Network Server, launched in 1991, the Network Server was a Campus Wide Information System that provided email and electronic bulletin board access in a simple terminal interface. Prior to the Network Server, the university used a system providing similar services, called MUSIC/SP, which was developed by McGill University and sold by IBM. The system was in operation from 1985 to 1992.

The Campus Portal was built on a web application framework called Luminis, developed by Campus Pipeline, which was later acquired by SCT and now Ellucian. It provided a number of "channels" organized by a user's role, and a single sign-on (SSO) interface linking to a number of different services. In 2018, Lehigh's Enrollment Services rolled out a new cloud-based student portal and graduate student portal which use software developed by EnrollmentRx (ERx) and runs on top of Salesforce.

The Campus Portal was decommissioned in June, 2020.