Cloud Computing is the delivery of computing services such as servers, storage, databases, networking, software, analytics etc., over the Internet (“the cloud”) with the aim of providing flexible resources, faster innovation and economies of scale. Because big data is now considered vital for many organizations and fields, service providers such as Amazon, Google and Microsoft are offering their own big data systems in a cost-efficient manner. Educating undergraduate students on the basics of cloud computing can prepare students for this rapidly growing industry, and greatly accelerate their career success.

**Course Description:**

Students will be introduced to modern cloud computing platforms and gain hands-on experience on Google Cloud. In addition, this course will have students be aware of the opportunities and challenges that arise from working with massive data sets. Students will learn related tools and techniques through concrete projects, which help them transition smoothly from college to industry.

**Prerequisites:** CMP-232 Discrete Mathematics, CMP-168 Programming II. It is recommended that students have taken at least one advanced math courses such as vector calculus or linear algebra.