

<b>Course Title</b>	:	<b>Introduction to Data Visualization and Data Analytics in Research and Daily Lives</b> 淺說研究與生活中的數據可視化和分析
<b>Course Code</b>	:	<b>GEH2047</b>
<b>Department</b>	:	<b>Education Policy and Leadership</b>

### **Synopsis**

This course is designed to enable students to learn the significance of data visualization in research and daily lives and develop knowledge and skills to present quantitative data using data visualization tools for their own studies and honors projects. In considering most students lack data literacy, the course will not require extensive quantitative analyses, but adopt a problem-solving approach by linking research problems, hypotheses, data analytics and interpretations of findings.

Students have to actively participate in formative assessments, group presentation project and individual portfolio. There are numerous computer lab workshops in which students will try out data visualization and data analytics tools. Attendance in these workshops is considered a must for developing skills through hands-on practices of data visualization applications and for completing problem-solving tasks, group project, and individual portfolio. The research topics for the group project will cover five disciplines (i.e. sociology, psychology, linguistics, computer science, and education) such that students can choose their preferences with respect to their majors and then elaborate further by drawing relevance to an issue in daily lives (including teaching). The research topics are chosen as they are expected to enhance students' social awareness of issues that are important for theory and practice.