



IMAGING PARTNERSHIP

Exploring Education Through Imaging

Afterschool Workshops Applied Healthcare Sessions Overview

The emphasis is on practical hands-on learning, designed to give a better understanding of how the exciting world of medical technology within the field of healthcare works and how photography (optics) plays a role. The course demonstrates to pupils how they can easily improve their images by following some basic principles. The approach will be informal and fun.

Digital healthcare is an upcoming discipline that involves the use of information and communication technologies to help address the health problems and challenges faced by patients.

Breakdown of Lessons for the 6 week workshops:

Week 1: [Photography in E-Health](#)

E-health: the combined use of electronic means to deliver health information and services so that data can be transmitted, stored and retrieved for clinical, educational and administrative purposes.

Week 2 and 3: [Computational simulations, modeling and machine learning approaches](#)

The use of practical photography to model health-related outcomes.

Week 4 and 5: [Health systems engineering](#)

The use of engineering applications in health care systems, such as knowledge discovery, decision making, optimization, human factors engineering, quality engineering, and information technology and communication.

Week 6: [Virtual reality and serious games](#)

The use of 3D virtual worlds and gaming technologies to provide a social and interactive experience for healthcare student and patient education. The popular “Second Life” virtual world is an example.

