Daniel has an interest in the dynamic relationship between science education research and its application to practice, especially in large first year classes. He is a passionate advocate of active learning in large classes, where he crafts engaging social environments that support student success. His broad aim is to improve students’ perceptions and to develop capacity for real change in the depth of their understanding and enjoyment of science. To achieve these aims his research also includes exploring issues of educational measurement in different sociocultural contexts, and in interdisciplines such as forensic science and nanotechnology.

Specialty areas of teaching

Students working in teams; Engaging workshops; Team facilitation

Description of teaching to showcase to others

Daniel is showcasing a workshop in the second year Chemistry program. The workshop is a space where students learn by working in teams, discussing their answers and coming to a consensus. Students are provided with a carefully structured activity supported by online resources, to construct their knowledge of the topic. The workshops are an active, social environment, and students are provided opportunities to report on what they have learned and to give and receive feedback. This is supported by a team of trained facilitators.

Open Door Availability

Unit: Chemical Structure and Spectroscopy (CHEM2004)

Times Available: Tuesday 2-4pm

Dates Available:
17 and 24 March 2015
28 April 2015
5 and 26 May 2015
2 June 2015

Location of Session: Room 300.215

Maximum available visitor number: 2

Available for consultation: Directly after this session and can also be negotiated

Learn more about Daniel’s research interests and publications at: http://oasisapps.curtin.edu.au/staff/profile/view/D.Southam

Please contact Daniel at D.Southam@Curtin.edu.au to organise an Open Door session