Length of course	3 years
Entry requirements	English language competence (see page 114); TEE Applicable Mathematics and at least one of TEE Physics, TEE Chemistry or TEE Geology. TEE Calculus is strongly recommended (students without it will be required to complete a Calculus enabling course).
2008 minimum TER	80.00
Intake period	February and July
Weekly first-year time commitment	20–25 hours plus own study time

Bachelor of Science (Scientific Computation)

"The UWA School of Physics provided perhaps the most stimulating and memorable times of my life."

| Stuart Midgley |

The UWA School of Physics was my home away from home for three and a half years, providing perhaps the most stimulating and memorable times of my life. A strong academic programme, relaxed atmosphere, beautiful campus and stimulating work environment provided the ideal settings for a PhD in Theoretical Physics. Sure, solving the time dependent Schrödinger equation was paramount to my PhD, but the most important aspects were the analytical and problem solving skills I learnt. Such desirable skills are enhanced by the network of local, national and international peers, who share a similar passion for research and quantum mechanics. These combined have proven invaluable throughout my career and allowed me to accept challenging and stimulating positions in the supercomputer industry. While I am no longer involved with theoretical or computational physics, the mixture provided a practical grounding for a strong IT career leading into management. The ability to solve complex problems, a strong scientific background, good communications skills and a 'can do' attitude has proven a compelling combination for employers who continue to offer exciting new opportunities. A rewarding and stimulating career keeps me keenly interested in my profession and provides opportunity to dabble a little in the academic pursuit.

What's it about?

A dramatic increase in the power of computers has been essential to the recent rapid development of science and engineering. This programme gives you the opportunity to develop skills in complex problem solving in science (focusing on physics, chemistry or Earth science), applying high-level expertise in mathematical and computer modelling. Scientific computation provides deeper insight into a wide range of phenomena than theory and experiment alone.

Career Opportunities

In addition to opening up the normal range of careers available to graduates in physics, chemistry, geology or soil science, the advanced computational skills specially developed in this programme make graduates an attractive prospect for employers both within the scientific community (such as universities and government research laboratories) and in industry and consultancy companies.

Course Requirements

LEVEL 1

Mathematics/Statistics
Scientific Programming
at least one of:
Physics
Chemistry
Earth Science (Geology)
and, if required, approved electives

LEVELS 2 and 3

Mathematics
Scientific Computation
Scientific Modelling
High-performance Computing
and completion of a major in one of the following:
Computational Physics
Computational Chemistry
Computational Geoscience