

### **3.4.3.4 Minor in Engineering Materials**

Host Faculties:

- Faculty of Engineering (Department of Materials Science and Engineering)
- Faculty of Science

Engineering materials have played a key role in shaping the evolution of the industry in the past. All the more so, in recent times, materials played a catalytic role in influencing the technological advancement and economic growth of nations. It is not a coincidence that the most advanced nations of the world are also most advanced in the know-how of materials which ranges from synthetic to biological materials. Rapid strides in advancement in cutting edge technologies, whether related to life sciences such as in biomaterials, or engineering such as in thin films, are dependent on the further growth in the knowledge related to materials. Some of the materials-sensitive technologies include Bioengineering, Nanotechnology, Information Technology and Wafer Level Packaging. In order to align ourselves with most of the leading economies and universities of the world, it is imperative that we create a network of programmes that drive our students into the world of engineering materials.

The objectives of this multidisciplinary minor programme are as follows:

- To equip students with the fundamentals related to engineering materials, placing particular emphasis on advanced materials, design, manufacturing and processes,
- To enable students to be more aware of the behaviour of materials in engineering applications, and
- To enable students to select the materials for various engineering applications.

#### **Requirements**

Please refer to the Faculty of Engineering Bulletin or Faculty of Engineering website for this minor <http://www.mse.nus.edu.sg/undergraduate.php> for the curriculum requirements.

#### **Application Procedures**

Science students who wish to apply for the minor in Engineering Materials must complete the application form and return it to the Science Dean's Office, Blk S16 Level 2. Selected students will be notified by email. The form is available from the following website: <http://www.mse.nus.edu.sg/undergraduate.php>