# COURSE DETAIL

| RHEOLOGY AND TEXTURAL PROPERTIES OF BIOMATERIALS |
| --- |
| **Country**<br>Singapore |
| **Host Institution**<br>National University of Singapore |
| **Program(s)**<br>National University of Singapore |
| **UCEAP Course Level**<br>Graduate |
| **UCEAP Subject Area(s)**<br>Physics Bioengineering |
| **UCEAP Course Number**<br>203 |
| **UCEAP Course Suffix** |
| **UCEAP Official Title**<br>RHEOLOGY AND TEXTURAL PROPERTIES OF BIOMATERIALS |
| **UCEAP Transcript Title**<br>RHEOLOGY&BIOMATERL |
| **UCEAP Quarter Units**<br>6.00 |
| **UCEAP Semester Units**<br>4.00 |

**Course Description**

The course provides a study of the major principles and types of rheology and how these can be applied to give the required structure, texture, and viscosity in processed biomaterials. Major topics include viscosity of Newtonian and non-Newtonian fluids, viscoelastic properties of weak and strong gels, transient responses of a wide range of food and pharmaceutical products, and theoretical/empirical modelling of mechanical properties.

**Language(s) of Instruction**
English

**Host Institution Course Number**
FST5201

**Host Institution Course Title**
RHEOLOGY AND TEXTURAL PROPERTIES OF BIOMATERIALS

**Host Institution Campus**

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**
Food Science and Technology

Print