

# ECO-SOCIALLY CONSCIOUS DESIGN AND MANUFACTURING, MINOR (0310)

Western Sydney University Minor Code: 0310

Previous code: SM3128.1

## Available to students in other Western Sydney University

**Programs:** Yes. Check that your program has the available credit points required to complete the subjects in this field of study. Any requisite requirements must also be met. Consult your Program Advisor for further advice.

This minor aims to prepare eco-socially aware students for roles in a wide range of industries and to deal with environmental and humanitarian problems created as a result of industrial and other human activities. Students from different disciplines examine sustainability issues from environmental, humanities and economical angles and work together on “real world” problems supported by academics and industry partners. In evaluating the social and environmental impacts, students gain essential skills in decision-making, designing and manufacturing products in a sustainable and equitable manner. Students learn to apply a holistic approach to solving problems in the ongoing automation of manufacturing and industrial practices in the Fourth Industrial Revolution (or Industry 4.0).

## Location

| Campus           | Mode     | Advice                           |
|------------------|----------|----------------------------------|
| Parramatta South | Internal | M.Darestani@westernsydney.edu.au |
| Parramatta City  | Internal | M.Darestani@westernsydney.edu.au |
| Hawkesbury       | Internal | M.Darestani@westernsydney.edu.au |
| Campbelltown     | Internal | M.Darestani@westernsydney.edu.au |
| Penrith          | Internal | M.Darestani@westernsydney.edu.au |

## Minor Structure

Students must complete 40 credit points as follows.

| Subject                                                                                                                                                                                                                                                                                  | Title                                         | Credit Points |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------|
| Select three of the following:                                                                                                                                                                                                                                                           |                                               | 30            |
| ENVL 2008                                                                                                                                                                                                                                                                                | Australian Ecosystems: Threats and Solutions  |               |
| BEHV 1001                                                                                                                                                                                                                                                                                | Behaviour and Environment                     |               |
| ENGR 1042                                                                                                                                                                                                                                                                                | Sustainable Materials and Smart Manufacturing |               |
| BUSM 3028                                                                                                                                                                                                                                                                                | Innovation, Enterprise and Society            |               |
| The below Capstone subject can only be completed after two elective subjects from the above pool have been completed, but can be taken in the same semester as a final pool subject. Pool subjects are available in a variety of semesters allowing students flexibility for completion. |                                               |               |
| ENGR 3022                                                                                                                                                                                                                                                                                | Special Technical Project                     | 10            |
| <b>Total Credit Points</b>                                                                                                                                                                                                                                                               |                                               | <b>40</b>     |