

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

ENGR 3022	Special Technical Project	10
Total Credit Points		40

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).

This minor is a Challenge Minor, which is an innovative transdisciplinary minor co-created with students as partners. With a Challenge Minor, your learning reaches beyond your discipline, giving you the chance to amplify your learning in new directions. For more information, visit the Challenge Minor (https://www.westernsydney.edu.au/educational_partnerships_and_quality/home/challenge_minors/) website.

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.