

# ENGR 7030 BUSHFIRE DESIGN AND CLIMATE CHANGE

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**Credit Points** 10

**Description** This subject considers the concept of 'design bushfire' and the impact of climate change upon varying weather and climate conditions in Australia and globally. The potential implications of climate change on bushfire behaviour and bushfire design are developed. Students will be introduced to the concept of "Bushfire Protection Design Guidelines" including the concepts of Bushfire Design Brief and Bushfire Design Subsystems, as well as the Bushfire Verification Method adopted by the National Construction Code. Students will be able to calculate recurrence conditions for bushfire behaviour and bushfire weather conditions using extreme values techniques. Students will compare different bushfire behaviour models and their implications for future climatic conditions in developing performance solutions for bushfire protection. The role of landscape fires and fire generated winds will also be considered in the context of planning and building for bushfire protection. The role of traditional Aboriginal burning practices and culture also forms an important aspect of this subject.

**School** Eng, Design & Built Env

**Student Contribution Band** HECS Band 2 10cp

**Level** Postgraduate Coursework Level 7 subject

Teaching Periods

## Autumn (2022)

**Parramatta City - Macquarie St**

**Composite**

**Subject Contact**

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=ENGR7030\\_22-AUT\\_PC\\_C#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=ENGR7030_22-AUT_PC_C#subjects))

## Autumn (2023)

**Parramatta City - Macquarie St**

**Multi-modal**

**Subject Contact**

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=ENGR7030\\_23-AUT\\_PC\\_3#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=ENGR7030_23-AUT_PC_3#subjects))