

# BLDG 7004 BUILDING IN BUSHFIRE PRONE AREAS

## Credit Points 10

### Legacy Code 200458

Coordinator Tim Carroll (<https://directory.westernsydney.edu.au/search/name/Tim Carroll/>)

**Description** This subject describes the basis for the design and construction of buildings to withstand bushfire attack, the measures that can be incorporated into building design to achieve this and the legislative building requirements affecting bushfire environments. The subject examines the mechanisms of bushfire attack on structures, the role of landscaping on building survival and how materials perform in the presence of a bushfire event. The subject describes the role of the Building Code of Australia (BCA) and Australian Standards in the construction of various building types and the legislative and regulatory environment in which this operates.

**School** Eng, Design & Built Env

**Discipline** Building Construction Management

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

Check your fees via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Postgraduate Coursework Level 7 subject

## Restrictions

Students must be enrolled in a postgraduate program.

## Learning Outcomes

On successful completion of this subject, students should be able to:

1. Identify and explain the building legislation for various buildings in bushfire prone areas;
2. Discuss the relationship between bushfire attack and building performance;
3. Describe the role of landscaping in propagating bushfire in the urban interface environment;
4. Describe the various design options available to improve building survivability during a bushfire; and
5. Review the options available for construction of buildings so as to comply with building legislation, particularly with respect to the role of Australian Standards.

## Subject Content

Overview of architectural issues for the building envelope; Ignition of buildings in bushfires - the mechanisms operating (bushfire attack); Design options for improved building performance; Upgrading existing buildings; Building Code of Australia deemed to satisfy and performance requirements; Australian Standard for construction in bushfire prone areas - AS 3959;

Maintenance of building envelope for bushfire performance

Landscaping for bushfire prone areas

## Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Type	Length	Percent	Threshold	Individual/ Group Task	Mandatory
Short Answer	1000w - short essay questions.	20	N	Individual	Y
Essay	2000w - essay.	25	N	Individual	Y
Report	3000w - major report.	35	N	Individual	Y
Critical Review	1,500 words	20	N	Individual	Y

Teaching Periods

## Spring (2025)

**Parramatta City - Macquarie St**

**Hybrid**

**Subject Contact** Tim Carroll (<https://directory.westernsydney.edu.au/search/name/Tim Carroll/>)

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=BLDG7004\\_25-SPR\\_PC\\_3#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=BLDG7004_25-SPR_PC_3#subjects))