

COURSE DETAIL

COMPOSITES AND FUNCTIONAL MATERIALS

Country

Australia

Host Institution

University of New South Wales

Program(s)

University of New South Wales

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Materials Science Engineering

UCEAP Course Number

127

UCEAP Course Suffix**UCEAP Official Title**

COMPOSITES AND FUNCTIONAL MATERIALS

UCEAP Transcript Title

COMPOSITS&MATERIALS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

Topics covered in this course include polymer matrix, metal matrix, and ceramic matrix composites; nanocomposites; mechanical behaviour of composites; physico-chemical characterisation; fabrication techniques; design with composites; applications; fundamentals of semiconductor physics; material processes used in the fabrication of electronic devices such as single crystal growth, implantation, lithography, etching, and thin film growth; sources of failure and methods of fault diagnosis in devices; and application of dielectric materials in semiconductor devices.

Language(s) of Instruction

English

Host Institution Course Number

MATS4005

Host Institution Course Title

COMPOSITES AND FUNCTIONAL MATERIALS

Host Institution Course Details**Host Institution Campus**

sydney

Host Institution Faculty**Host Institution Degree****Host Institution Department**

Materials Science and Engineering

Course Last Reviewed

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