PETITION TO SUBSTITUTE BACHELOR OF ARCHITECTURE COURSE REQUIREMENT

Name ___________________________ USC ID# ___________________________ Date __________

EQUIVALENT COURSE TITLE(S) __________________________________________________________________________

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________________________________________ UNITS ________ SEMESTER/YEAR COURSE WAS COMPLETED ____________

GRADE ______________ TRANSFER INSTITUTION ___________________________

Number & Title of Course: ARCH 215 DESIGN FOR THE THERMAL AND ATMOSPHERIC ENVIRONMENT 3 UNITS

Course Description: Ideas, problems, and computations related to the design of buildings in response to the thermal and atmospheric environment; passive solar systems, mechanical control systems.

Course Goals & Objectives: This course deals with the thermal and environmental processes that affect buildings, and examines how the designer responds to or manipulates the thermal environment, with following objectives:
• to understand the physics of building systems;
• to understand the influence of glass on occupant comfort;
• to understand how occupant comfort is defined;
• to understand different space-conditioning systems; and
• to learn basic principles of sustainability.

Required Student Performance Criterion/a addressed: Met Not Met

B.3 Sustainability
B.8 Environmental Systems
C.2 Human Behavior

Additional Student Performance Criterion/a addressed

A.2 Design Thinking Skills
B.8 Environmental Systems
B.3 Sustainability

Topical Outline (include percentage of time in course spent in each subject area):
Heating systems (20%)
Cooling systems (20%)
Thermal comfort (30%)
Facades (10%)
Space conditioning systems (10%)
Energy consumption (10%)

Textbooks/Learning Resources:

FOR OFFICE USE ONLY

Faculty Recommendation □ Substitution Approved □ Substitution Denied Date ______________

Faculty Name (printed) ___________________________ (signature) ___________________________

Comment __________________________________________________________________________

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Director of Undergraduate Programs ___________________________ Date ______________

Comment __________________________________________________________________________