PETITION TO SUBSTITUTE MASTER OF ARCHITECTURE BASIC STUDIES COURSE REQUIREMENT

Name ______________________ USC ID# ______________ Date ____________

EQUIVALENT COURSE TITLE(S) ______________________________

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COURSE # ___________________________ UNITS ___________ SEMESTER/YEAR COURSE WAS COMPLETED ________________

GRADE ___________________________ INSTITUTION ___________________________

Number & Title of Course: ARCH 213 B  BUILDING STRUCTURES AND SEISMIC DESIGN  3 UNITS

Course Description: a: Investigation and design of elements and systems for building structures; applied mechanics, strength of materials, structural investigation as a design tool. b: Investigation and design of structure systems: their resistance to seismic and wind forces and integration.

Course Goals & Objectives:
• Students focus on Synergy of Form and Structure.
• Students learn to select structures for short, medium, and long-span spaces.
• Students learn to design structures compatible with architectural objectives.
• Students study basic optimization of structures.
• Students explore diverse structural systems.
• Students learn the correlation of complexity and cost.
• Students study structural elements and systems to resist wind and seismic loads.

Required Curricular Topics addressed

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<tr>
<th>Topic</th>
<th>Met</th>
<th>Not Met</th>
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<tbody>
<tr>
<td>Span Systems</td>
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<td>Structural Systems Selection and Design</td>
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<td>Lateral Systems</td>
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<td>Steel Frame Systems</td>
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Required Student Performance Criterion/a addressed:

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<th>Criterion</th>
<th>Met</th>
<th>Not Met</th>
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<tr>
<td>B.9 Structural Systems</td>
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<td>C.1 Collaboration</td>
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Topical Outline (include percentage of time in course spent in each subject area):
Select structure systems (20%)
Design structure systems (30%)
Integrate structures, etc. (25%)
Optimize structures (15%)
Consider structure cost (10%)

Prerequisites: ARCH 213a


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Recommendation ☐ Substitution Approved ☐ Substitution Denied Date __________________________

Associate Director, Master of Architecture __________________________ Date __________________________

Selwyn Ting

Comment __________________________