**PETITION TO SUBSTITUTE BACHELOR OF ARCHITECTURE COURSE REQUIREMENT**

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<tr>
<th>Name</th>
<th>USC ID#</th>
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**EQUIVALENT COURSE TITLE(S):**

<table>
<thead>
<tr>
<th>COURSE #</th>
<th>UNITS</th>
<th>SEMESTER/YEAR COURSE WAS COMPLETED</th>
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<th>GRADE</th>
<th>TRANSFER INSTITUTION</th>
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**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.

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<tr>
<th>Required Student Performance Criterion/a addressed</th>
<th>Met</th>
<th>Not Met</th>
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<tbody>
<tr>
<td>B.9 Structural Systems</td>
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<td>C.1 Collaboration</td>
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**Additional Student Performance Criterion/a addressed**

| B.9 Structural Systems                              |     |         |
| A.2 Design Thinking Skills                         |     |         |
| B.5 Life Safety                                     |     |         |

**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 (15%)

**Prerequisites:** ARCH 213a

**Textbooks/Learning Resources:**

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**FOR OFFICE USE ONLY**

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<tr>
<th>Faculty Recommendation</th>
<th>Substitution Approved</th>
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<th>Faculty Name (printed)</th>
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<tr>
<th>Director of Undergraduate Programs</th>
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<td>Alice Kimm</td>
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