

Name: _____
First or Given Name Last or Family Name

Undergraduate Institution _____

Structural Systems (ARCH 5230)

	Course Number	Course Name	Grade
<u>Fundamental knowledge and principles of statics and mechanics of materials including:</u>			
Types and combinations of loads	_____	_____	_____
Equilibrium & determinacy	_____	_____	_____
Relationship of stress and strain	_____	_____	_____
Relationship of geometry and strength	_____	_____	_____
<u>Ability to select and design structural systems and using tools to assess performance of these topic areas:</u>			
Setting a structural pattern	_____	_____	_____
Aligning structure and architectural form	_____	_____	_____
Analyzing gravity and lateral load path	_____	_____	_____
Determining maximum internal stresses	_____	_____	_____
Sizing beams/columns	_____	_____	_____
<u>Analysis of historical and contemporary structures, to understand the behavior of structural systems and components, including:</u>			
Cable structures	_____	_____	_____
Trusses	_____	_____	_____
Frames	_____	_____	_____
Arches, Vaults, and Domes	_____	_____	_____
Braces, Shear Walls, Moment Frames	_____	_____	_____
Retaining Walls	_____	_____	_____