

## ARCH2226 - Residential Project II

Credits:	4 (1/3/0)
Description:	This course introduces building design and construction requirements for multi-family housing. The course covers the processes for the selection of building materials and their integration into construction documents.
Prerequisites:	• ARCH1122 • ARCH1126
Corequisites:	
Pre/Corequisites*:	
Competencies:	<ol> <li>Report code requirements of various multiple-family housing typologies.</li> <li>Create typical unit floor plans.</li> <li>Draw floor plans per given Computer Aided Drafting (CAD) standards.</li> <li>Examine maintenance-free exterior material selections.</li> <li>Create multiple exterior design options using varying materials and roof forms.</li> <li>Create project estimates for various elevation options.</li> <li>Draw building elevations per given CAD standards.</li> <li>Draw roof plan per given CAD standards.</li> <li>Coordinate structural framing layout with mechanical and electrical systems.</li> <li>Draw a building section per given CAD standards.</li> <li>Draw wall sections per given CAD standards.</li> <li>Draw a stair section per given CAD standards.</li> <li>Draw a stair section per given CAD standards.</li> <li>Draw property metes and bounds from given survey information.</li> <li>Draw a site plan per given CAD standards.</li> <li>Examine interior material selections requirements.</li> <li>Coordinate door, window and room finish schedules with building design.</li> <li>Draw construction details for the building envelope.</li> <li>Complete a project estimate of interior finishes.</li> <li>Produce coordinated construction document set.</li> </ol>
MnTC goal areas:	None

<sup>\*</sup>Can be taking as a Prerequisite or Corequisite.