

## 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:     | <ul style="list-style-type: none"> <li>• ARCH1122</li> <li>• ARCH1126</li> </ul>   |
| Corequisites:      |  |
| Pre/Corequisites*: |  |
| Competencies:      | <ol style="list-style-type: none"> <li>1. Report code requirements of various multiple-family housing typologies.</li> <li>2. Create typical unit floor plans.</li> <li>3. Draw floor plans per given Computer Aided Drafting (CAD) standards.</li> <li>4. Examine maintenance-free exterior material selections.</li> <li>5. Create multiple exterior design options using varying materials and roof forms.</li> <li>6. Create project estimates for various elevation options.</li> <li>7. Draw building elevations per given CAD standards.</li> <li>8. Draw roof plan per given CAD standards.</li> <li>9. Coordinate structural framing layout with mechanical and electrical systems.</li> <li>10. Draw a building section per given CAD standards.</li> <li>11. Draw wall sections per given CAD standards.</li> <li>12. Draw a stair section per given CAD standards.</li> <li>13. Report zoning requirements of multiple-family housing typologies.</li> <li>14. Draw property metes and bounds from given survey information.</li> <li>15. Draw a site plan per given CAD standards.</li> <li>16. Examine interior material selections requirements.</li> <li>17. Coordinate door, window and room finish schedules with building design.</li> <li>18. Draw construction details for the building envelope.</li> <li>19. Complete a project estimate of interior finishes.</li> <li>20. Produce coordinated construction document set.</li> </ol> |
| MnTC goal areas:   | None   |

\*Can be taking as a Prerequisite or Corequisite.