



## SEC 3 ARCHITECTURAL DESIGN: The Science of Building

Contact Mrs. Berner at [bernera@loyola.ca](mailto:bernera@loyola.ca) (I will reply as soon as possible, except after 10PM or on weekends)

<p>PART 1 (September to January)</p> <p>Physics, Math and drafting</p>	<p>Why do Buildings Fall Down?</p> <p>Architectural Drafting</p> <p>Digital Drafting</p>	Forces and Stresses
		Engineering principles
		Lego Architectural studio
		Multiview
		Elevation
		Plan
		Isometric View
		One Point Perspective
		Autodesk Inventor
<p>Part 2 February to April</p> <p>Applying the Principles</p>	<p>Architectural Styles from Prehistory until 1900</p>	Post and Lintel
		Arches
		Domes
		Truss
		Suspension / Tensile
		Steel Frame
<p>Part 3 May</p> <p>Modular Homes Final Assignment</p>	<p>Jury Evaluation</p>	Details to follow in class

Term 1	One Project: 20%	Four Microlabs: 40%	Four Drafting: 40%
Term 2	Two Projects: 40%	Five Microlabs: 50%	One drafting: 10%

Term 3	Five Projects: 50%	One drafting: 15%	Three Microlabs: 15%	Final In-class Assignment: 25%
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Loyola provides:

- Graph and isometric paper
- Architectural fine tip pens

Student provides:

- a binder or folder for all paperwork and drawings
- Lead pencils, pens and general supplies
- 30 cm ruler and 45 degree angle set square

Students must bring these materials to all classes

**Extra Help:** Rm 353 will be open most Days 1 and 7 after school – BY APPOINTMENT ONLY.

**Late Policy:** Late projects may be submitted by the beginning of the class after they are due at a penalty of 20%. Projects submitted after that time shall receive a mark of zero.