



Unit #3 – Architectural Design Project
TDJ3M – Technological Design, Grade 11

Project Description:

- As a process, **architecture** is the activity of designing and constructing buildings and other physical structures by a person or a computer, primarily to provide shelter
- In this project students will use **SoftPlan 13** to create a complete set of architectural design drawings for an structure of their choosing
- This is an **individual** project

Materials:

You will have access to the following materials:

- *SoftPlan 13*
- *Internet resources*
- *The Ontario Building Code*
- *Other architectural resources*

Project Suggestions:

- *Redesign an existing house (must meet requirements below)*
- *Design a new house (must meet requirements below)*

Specifications and requirements that must be adhered to:

- Your architectural design **must** be for a **two story house with OR without a basement**
- Your house **must** have between **2000 ft² and 3000 ft²** of living space
 - This includes the basement, first floor and second floor but not a garage
- Your house **must fit on the supplied site plan**
- Your design **must** adhere to the **Ontario Building Code**
- A **laundry room** with a **washer, dryer and sink**
- A **family room** with a **fireplace**
- A **minimum of two bedrooms**
- A **minimum of one washroom per floor**
- A main entrance with a **adequately sized foyer**
- **Large windows** to provide as much natural light as possible
- **Brick or wooden siding exterior**
- A **secondary entrance** at the back with a **minimum 100 ft² deck**
- Plenty of **closet space** in all bedrooms and additional closet space near to all entrances, washrooms and laundry room
- No more than a **double car garage** (garage optional)
- **Furniture and accessories** must be drawn in each room of the house
- All **electrical outlets and lighting** must also be shown in each room
- Marks will be awarded for level of **difficulty, uniqueness, drawing skill and ingenuity**

Web and Learning Resources:

- Introduction to SoftPlan interactive tutorials (disk 1 and 2)
- Learning SoftPlan v13, textbook
- http://en.wikipedia.org/wiki/Architectural_Design
- <http://en.wikipedia.org/wiki/Architecture>
- <http://ontario-building-code.com/>

STUDENT: _____

Deliverables, Due Dates and Marking Scheme:

Deliverable	Description	Due Date	Marks
Initial Proposal (Comm.)	<ul style="list-style-type: none">• Create an initial proposal for your architectural design, with a clear statement of your ideas and the scope for your project (use template from webpage)• Clear your idea with the teacher before dedicating too much time to your design• Your proposal must include...<ul style="list-style-type: none">○ The type of house design you plan to do (new or redesign an existing house)○ A description of the house design (talk about the layout, client needs, special considerations when designing)○ Include a detailed explanation of what you plan to do (e.g. a rough timeline using my due dates as a reference)	Wednesday, October 27	/10
Hand Drawn Floor Plan Sketches (Thinking)	<ul style="list-style-type: none">• A rough floor plan of each level of your house• Use a ruler, and include rough dimensions	Friday, October 29	/10
Floor Plans (Knowledge)	<ul style="list-style-type: none">• A floor plan for each floor of the house as created in SoftPlan• See Floor Plan rubric for marking scheme• Hardcopy and file required for hand in	Friday, Nov 5	/40
Elevation Drawings (Application)	<ul style="list-style-type: none">• An elevation drawing for the Front and side view of the house as created in SoftPlan• See Elevation Drawing rubric for marking scheme• Hardcopy and file required for hand in	Tuesday, November 9	/40
Total			/100