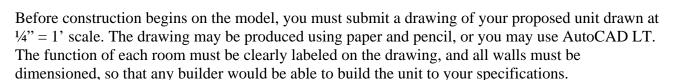
TCJ200 Grade 10 Construction

Model House Project

Your architectural firm has been asked to submit a proposal for a house to be built in a new development in Mississauga. Your proposal must include both a set of drawings for the building and a model of your design showing the wood frame construction methods to be used.

Your house design must have the following features:

- 1 story
- 1 kitchen
- 1washrooms
- Living/dining area
- 2 or 3 bedrooms
- maximum floor area 1800 sq. ft.
- minimum floor area 1250 sq. ft.
- It must fit on a lot 40' x 64'
- Garages may not be included on the floor plan.



When your drawings have been approved, you will then be responsible for building a scale model of your unit at 3/8" = 1' scale. The walls must be constructed to precisely the same dimensions as your floor plan. The walls will be constructed using wood studs, following the standards for wood frame construction as set out in the Canadian Building Code.

The developer plans to open the showroom to prospective buyers early in 2008, so your model must be completed no later than Friday, November 30th, 2007. If your model is completed prior to the deadline, you may proceed to build a second floor over all or part of the first floor. Or, if time permits, you may choose to add a garage to the first floor.



TCJ200 Grade 10 Construction

Floor Plan Drawing Evaluation

Complete either A or B	Student:
Complete cities A of B	Student.

A: Floor Plan Drawing

Criteria	Level I Limited Success (50% - 59%)	Level 2 Some Success (60% - 69%)	Level 3 Mostly Successful (70% - 79%)	Level 4 Highly Successful (80% - 100%)	Mark
Line	Lines not straight, sloppy, blotted or uneven	Lines too light and/or construction lines not used	Straight, clean lines. Use of construction lines evident.	Exceptionally precise work	/5
Lettering	Sloppy, not centered, wrong height or lowercase	One or two of the problems listed in level 1	Block letters, all CAPITALS, correct height, centered	Exceptionally well formed letters with a consistent style	/5
Proportion	Unbalanced, not to scale, inconsistent proportions	Most parts of the object drawn to appropriate scale	All items drawn to the appropriate scale	Exceptionally precise, accurately scaled drawings	/5
Presentation	Smudged, torn, or wrinkled. Careless and confused	Mostly clean, somewhat attractive drawings	Clean, attractive, accurate and understandable	Very clean, attractive, accurate, lucid drawings	/5
Dimensioning	No dimensions shown	Some dimensions shown but are mostly inaccurate	All dimensions shown with few errors	Exceptionally accurate dimensioning	/5
Total				-	/25

B: CAD Floor Plan Drawing

Criteria	Level I Limited Success (50% - 59%)	Level 2 Some Success (60% - 69%)	Level 3 Mostly Successful (70% - 79%)	Level 4 Highly Successful (80% - 100%)	Mark
CAD Tool Use	Used only the most basic tools from the toolbar.	Used most of the tools listed in the next panel correctly	Used these tools: Line, Construction Line, Double Line, Offset, Text, Trim	Demonstrates the ability to find and use the appropriate tool	/5
Title Block	Text not centered, wrong height or lowercase	One or two of the problems listed in level 1	Sans serif font, all CAPITALS, correct height, centered	Very well executed layout.	/5
Accuracy	Elements placed by guesswork instead of measurement.	Most elements located correctly	All walls, doors, windows, cabinets located correctly.	Exceptionally precise and accurately scaled	/5
Dimensioning	No dimensions shown	Some dimensions shown but are mostly inaccurate	All dimensions shown with few errors	Exceptionally accurate dimensioning	/5
Total					/25

Comments:

TCJ200 Grade 10 Construction

House Design Evaluation

Student:			
student.			

Criteria	Level I Limited Success (50% - 59%)	Level 2 Some Success (60% - 69%)	Level 3 Mostly Successful (70% - 79%)	Level 4 Highly Successful (80% - 100%)	Value
Required Rooms/Floors	One of the floors, or two or more required rooms are not included	One of the required rooms or floors is not included on the plan	Two floors, two bedrooms, two bathrooms, kitchen living & dining area	Additional rooms provided within the allotted space	8
Space Utilization	Room sizes are inappropriate and space is wasted	Room sizes are inappropriate, or space is wasted	Appropriate room sizes, little wasted space	Optimal room sizes, no wasted space	8
Living Areas	Window space poorly used, and poor traffic flow and mixed living areas	Window space poorly used, or poor traffic flow, or mixed living areas	Rooms are grouped by use, living areas near windows, good traffic flow	Creative layout of rooms, optimal traffic flow, fine use of window locations	8
	Comments				
Required Rooms/Floors					/8
Space Utilization					/8
Living Areas					/8
Total					/24

TCJ2O0 Grade 10 Construction

House Model Evaluation

Student:

		1 12	1 12	1 14	
	Level I	Level 2	Level 3	Level 4	
	Limited Success	Some Success	Mostly Successful	Highly Successful	
Criteria	(50% - 59%)	(60% - 69%)	(70% - 79%)	(80% - 100%)	Value
Wood Stud	Many inaccuracies in	Wall framing	Stud spacing, door	Very accurate and	
Construction	wall framing	sometimes	openings, headers,	precise installation	10
Methods	technique	incorrect	top plate, installed	of wood stud walls	
			according to code		
Wood Stud	No attempt to	Some of the criteria	Dimensions match	All of criteria for	
Construction	match floor plan,	in level three are	floor plan, walls are	level three installed	
Quality	walls crooked,	not adequately	plumb and square,	with care and	20
	sloppy, wrong	followed.	wall height correct,	precision.	
	height		good fit and finish		
Floor Joist	Many inaccuracies in	Some errors in floor	Joist spacing, stair	Very accurate and	
Construction	floor joist	joist installation.	openings, headers,	precise installation	10
Methods	installation.	,	supporting walls	of floor joists	
			built to code.	,	
Roof	Many inaccuracies in	Some errors in	Rafter spacing, and	Very accurate and	
Construction	rafter installation.	rafter installation.	supports installed	precise installation	
Methods			according to code.	rafters.	10
Construction	First floor	First floor and	First floor, second	First floor, second	
Completion	complete.	second floor	floor and roof	floor & roof done	10
Completion	Complete.	complete.	complete, including	including stairs &	
		complete.	interior walls.	interior walls.	
			interior wais.	micrioi wans.	
		Comi	ments		Mark
Wood Stud					
Construction					
Methods					/10
· ictiicus					,
Wood Stud					
Construction					
Quality					/20
Eleculoist					
Floor Joist Construction					
Methods					
Methods					/10
					/10
Roof					
Construction					
Methods					
					/10
Construction					
Completion					/10
					,.,
Total					
					/60
					, 55