

NAME: \_\_\_\_\_

FYS 100 Conceptual Architecture  
Fall 2018

**FINAL EXAM DRAFT QUESTIONS; Actual questions will be selected from these**

The total number of points will be between 100 and 150, plus extra credit. This exam is closed-book, closed notes.  
J Wunderlich PhD

**ARCHITECTURE DESIGN THEORY**

(12 points) From Lecture <http://users.etsown.edu/w/wunderjt/Architectural%20Theory.pdf> , List the twelve **Architectural Vocabulary** terms on slide #3.

**MANSION INSPIRATIONS**

(10 points) From Lecture <http://users.etsown.edu/w/wunderjt/Mansions.pdf> , List any two things that you found **inspiring**

**THE BONES OF BARNS AND FARMHOUSES**

(5 points) From Lecture "Skeleton Beneath the Skin" (<http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/Skeleton%20Beneath%20the%20Skin.pdf> ) , sketch a **Mortise and Tenon** joint

**FRANK LLOYD WRIGHT**

Reflecting on lecture:

"**Birth to Age 19**" (<http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/Frank%20Lloyd%20Wright%20AGE%200%20TO%2019.pdf> )

summarized on slide #4 of lecture:

"**AGE 20 to 23**" (<http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/Frank%20Lloyd%20Wright%20AGE%2020%20TO%2033.pdf> ) , list:

(6 points) The two main "**PLACES**" of his youth up to Age 19

(12 points) The four main "**PEOPLE**" of his youth up to Age 19

(9 points) The three main "**EVENTS**" of his youth up to Age 19

And on slide #63 of that same lecture:

(21 points) List any seven of the thirteen "**DESIGN PRINCIPLES**" of his "**Organic Architecture**"

(10 points) Reflecting on lecture:

"**AGE 34 to 41**" (<http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/Frank%20Lloyd%20Wright%20AGE%2034%20TO%2041.pdf> )

list any two things that convinces you of how Japan strongly influenced Frank Lloyd Wright.:

(10 points) Reflecting on lectures:

"**AGE 48 to 62**" (<http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/Frank%20Lloyd%20Wright%20AGE%2048%20TO%2062.pdf> ) ,

"**AGE 63 to 78**" (<http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/Frank%20Lloyd%20Wright%20AGE%2063%20TO%2078.pdf> ) ,

"**AGE 79 to 91**" (<http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/Frank%20Lloyd%20Wright%20AGE%2079%20TO%2091.pdf> ) ,

Write a paragraph about Olga Wright and how she helped Frank Lloyd Wright.

**HOMEWORKS**

(5 points) Recall Homework #1 ([http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/FYS100\\_Assignment\\_1\\_F18\\_Lettering\\_and\\_FLOOR%20PLAN\\_Drawing.pdf](http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/FYS100_Assignment_1_F18_Lettering_and_FLOOR%20PLAN_Drawing.pdf) ) , and write in your best Architectural Lettering your full name, your Major, and the year you will graduate College:

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(15 points) Recall Homework #2 ([http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/FYS100\\_Assignment\\_2\\_F18\\_Perspective\\_Drawing.pdf](http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/FYS100_Assignment_2_F18_Perspective_Drawing.pdf) ) and sketch in **one-point perspective** your **dorm room** viewed from above:

(15 points) Recall Homework #3 ([http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/FYS100\\_Assignment\\_3\\_F18\\_Perspective\\_Drawing.pdf](http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/FYS100_Assignment_3_F18_Perspective_Drawing.pdf) ) , and sketch in **one-point perspective**, a hallway with two windows side by side:

(15 points) Recall Homework #4 ([http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/FYS100\\_Assignment\\_4\\_F18\\_Planning%20Assignment%20update%202018.pdf](http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/FYS100_Assignment_4_F18_Planning%20Assignment%20update%202018.pdf) ) , and list five **courses of your Major** that you most look forward to taking:

(25 points) Recall Homework #5 ([http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/FYS100\\_Assignment\\_5\\_F18\\_Perspective\\_Drawing.pdf](http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/FYS100_Assignment_5_F18_Perspective_Drawing.pdf) ) , and sketch **floor plans** of your semester design home, AND either sketch a **two-point perspective** of the Southwest exterior elevation, or sketch both the South and West elevations, AND THEN discuss the **sun** into your house on those sides.

**MODELS**

(5 points) Name your favorite Tip from Video "Architectural Model Making - **Tips & Tricks** - An Architect's Guide (part 1)"

- <https://www.youtube.com/watch?v=SxCYrFCm8o>

(5 points) Name your favorite Model Making Material, and why, from Video "Architectural Model Making - **Material Selection** - An Architect's Guide (part 2)"

- <https://www.youtube.com/watch?v=X8u3zhDUDzE>

(5 points) Name your favorite Model Making Tool, and why, from Video "Architectural Model Making - **Tools** - An Architect's Guide (part 3)"

- <https://www.youtube.com/watch?v=YaO4I-4oYUU>

(5 points) Name your favorite Model Base and Scale, and why, from Video "Architectural Model Making - **Model Bases & Scale** - An Architect's Guide (part 4)"

- [https://www.youtube.com/watch?v=hRckOk1\\_tCg](https://www.youtube.com/watch?v=hRckOk1_tCg)

(20 points) Sketch **MODEL #1** and **#2** (perspective drawings preferable, but two elevations is acceptable), and explain your design thoughts with sentences below each:

- **MODEL #1:** The **skin of your barn** including all exterior walls and the roof, and must have at least one door opening sized for a human, and one door opening of a size that will fit double doors to let horses in. The roof must overhang on the sides and at the gable ends by an amount that seems both functional and aesthetic.
- **MODEL #2:** **Barn timber frame skeleton** which must include at least three large trusses of your choosing.

(10 points) Sketch **MODEL #3** (perspective drawings preferable, but two elevations is acceptable),

then explain your design thoughts with a sentence or two below the drawing:

- A **farmhouse skin** of any style you choose, but must include at least one door opening for a human, and at least one window opening on every side of the house.

(20 points) Sketch **MODEL #4** (perspective drawings preferable, but two elevations is acceptable),

then explain your design with a sentence or two below the drawing:

- A **Japanese inspired house** including an Engawa. The roof must overhang everywhere by an amount that seems both functional and aesthetic. And a small Japanese garden with a pond and a bridge built over the pond.

**COACH SCHLOSSER**

(10 points) List the two most inspiring things you learned from our time with **Coach Schlosser**

**EXTRA CREDIT (only one of these three will be specified on exam)**

Reflecting on lecture: "Thermal Envelope" ([http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/EGR343\\_Green\\_Arch\\_Engr\\_CH\\_15\\_LECTURE\\_Thermal\\_Envelope.pdf](http://users.etsown.edu/w/wunderjt/Architecture%20Lectures/EGR343_Green_Arch_Engr_CH_15_LECTURE_Thermal_Envelope.pdf) )

Sketch as much of the following figure as you can remember:

- 1) (up to 6 points extra credit): "**Heat Gain on a Hot Day**" – with all 12 of the arrows drawn and labeled, and everything else in this picture drawn
- 2) (up to 4 points extra credit): "**Heat Loss on a Cold Day**" – with all 8 of the arrows drawn and labeled, and everything else in this picture drawn
- 3) (up to 6 points extra credit): "**Wall Section**" – with everything drawn and labeled