

**Homework 1A:****Annotated Drawings and Outline Specification Supporting Integrated & "Comprehensive" Design Principles****Background**

**The National Architectural Accrediting Board, Inc.'s criteria for the knowledge and skills of graduates of architecture programs is divided into three 'realms,' one of which is entitled "Integrated Building Practices."**

- 1 Within this 'realm' the criteria state that a graduate must demonstrate an ABILITY to produce a "comprehensive architectural project."
- 2 Part of the evidence of this ability is to document design decisions about a building with an understanding of the principles of environmental systems in general as well as a more detailed understanding Structure, Skin, and Services.
- 3 Evidence of this ability is also shown by documentation of an understanding of the principles of selecting construction products, components, and assemblies.

**The purpose of this assignment is to understand the requirements to show an ability to produce a "comprehensive architectural project."**

**The hypothetical context of this assignment is:**

- 1 The design problem supposes that the principal of a firm has returned from an "integrated building charrette" and produced a set of sketches and a first draft using 'Uniformat' of the specifications for the project.
- 2 The design problem states that the location is architecturally significant and that both Passivhaus and Living Building Challenge criteria are to be considered.
- 3 You have to put a package together describing the building for an estimator. The package will consist of drawings and an expanded version of the outline specification using Uniformat.

**Resources**

- 1 A summary of the Uniformat work breakdown structure can be found at:  
<http://www.wbdg.org/ndbm/uniformat.php>
- 2 A chapter from The Architect's Studio Companion by Allen and Iano describing how to select and size mechanical / electrical systems is on electronic reserve.
- 3 Passive House principles may be found at:  
[http://www.passivhaustagung.de/Passive\\_House\\_E/passivehouse.html](http://www.passivhaustagung.de/Passive_House_E/passivehouse.html)
- 4 The download for the Living Building Challenge may be found at <https://ilbi.org/lbc/standard>

**Research Work**

- 1 Become familiar with the information in the four sets of resource materials
- 2 Make copies of the resource material as needed.

**Writing Work**

**Do a technical description of your proposal for the building based on CSI's 'Uniformat' classification system**

- 1 Describe the building in terms of the initial Uniformat outline provided in the assignment.
- 2 Be as specific as possible about every component of the building

**Drawing Work:**

**Do a technical drawing of the following using 11" x 17" paper**

- 1 Plan: 1/8" = 1'-0"
- 2 Elevation: 1/8" = 1'-0"
- 3 Section: 1/8" = 1'-0"

**Account for architectural elements and their dimensions accurately**

**Annotate the drawings to cross-reference to the Uniformat Specification**

**Criteria for marking this homework**

**General Criteria**

This Homework counts as 10% of your marking for the course

Homework will be marked from '4' to '0.'

Answers to questions count as 1/2 of the mark for the homework

Drawings designed count as 1/2 of the mark for the homework

**Criteria for Answers to question**

General:

The response to this question is written

This written response is succinct, clear, and informative

Requirements for a mark of '4' - Building systems described at Uniformat Level 4

Requirements for a mark of '3' - Building systems described at Uniformat Level 3

Requirements for a mark of '2' - Building systems described at Uniformat Level 2

Requirements for a mark of '0' - Building systems described at Uniformat Level 1

**Criteria for quality of drawings**

General:

Drawings are evaluated in terms of completeness, accuracy, and legibility

Requirements for a mark of '4' -

Work product capable of being incorporated into a project using building information management.

Requirements for a mark of '3' -

Work product could be submitted to an outside consultant (in this case, a cost estimator).

Requirements for a mark of '2' -

Work product could be used to present an idea to a colleague within the office

Requirements for a mark of '0' - Minimal drawing