PHASE 1 – PRE-DESIGN

PRE-DESIGN

Before an architect begins the design process for a building, there are times when a project’s definition needs additional information. These types of activities are called pre-design services and can include the following:

• Site evaluation, analysis, and selection
• Geotechnical and structural studies
• Traffic studies
• Existing building documentation
• Programming
• Conceptual studies
• Blocking and stacking diagrams
• Project scheduling
• Project budgeting

For this project in the pre-design phase, each team of students will conduct the following research:

A) **Precedent analysis** through the study of an existing library to better understand institutional typologies
B) **Programming analysis** to understand user and space needs as well as adjacency requirements
C) **Site analysis** to identify urban planning opportunities and contextual issues related to the historic district
D) **Site model** will be produced as part of site analysis

TEAMWORK

For the Pre-Design Phase students will assemble themselves into super groups composed of two teams. This will result in a super group of four to five people.
REQUIREMENTS + FORMAT

All analyses may be produced using digital or analog methods. The final presentation format will be on 11”x17” sheets. These will be presented in both digital (PDF) and printed pin up format. Each team must develop a consistent and professional presentation that is clear to read when pinned up on a wall. Each team’s research will include a cover sheet with the name of each team member.

Each presentation sheet should include the following:
- Building name
- Building location
- Architect
- Date of construction
- North arrow
- Graphic scale
- Drawing type label (Ground floor plan, East elevation, section)
- Name of type of analysis or principle being conveyed

PART A: PRECEDENT ANALYSIS

In order to help students understand the complex nature of institutional building typologies, each team will perform precedent analysis for an existing library.

LIBRARY PRECEDENTS
Each team must select a library precedent to study and analyze from the following list of buildings.
- Bodleian Library - Oxford, U.K.
Each library precedent should be analyzed in four separate ways using plans, sections, elevations, diagrams, exploded isometrics, photographs, etc.

- **Form**: Building massing / hierarchy
- **Rhythm**: Elevation composition / Proportion
- **Space**: Program organization / Circulation or Spatial Sequence
- **Details**: Reading room strategy / Lighting / Ornament
- **Reflection**: Write a paragraph summarizing the findings from program analysis

**PART B: PROGRAM ANALYSIS**

Each team will analyze the Spanish Fork program and feasibility study document as well as the Design Public Input Survey Summary for the new library in four separate ways.
**Program opportunities** - summarize adjacency, issues, opportunities from the survey.

**Bubble diagram** - showing potential relationships between program spaces. Should consider differentiation between patron/librarian spaces (BOH/FOH).

**Space Size / Usage Matrix** - 3D diagram showing relative sizes of program organized by usage.

**Reflection** - Write a paragraph summarizing the findings from program analysis.

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**PART C: SITE ANALYSIS**

Teams will analyze the site and context for their library in a variety of ways outlined below. The analysis can be conveyed in a number of ways using plans, sections, elevations, diagrams, exploded isometrics, photographs, etc.

- **Immediate site historic context** (study buildings along Main Street)
- **Social / Demographics** (see SF Library Design Public Input Survey Summary)
- **Masterplan / Site Zoning / Historic Main Street Design Requirements** (see SF Main Street Study, APA CPAT Report, General Land Use Plan)
- **Reflection** - Write a paragraph summarizing the findings from program analysis
One member from each team will be dedicated to producing a single class site model. Costs of the model will be divided among the entire class. The site model must meet the following requirements:
• 1/16” = 1’-0” Scale
• Extents of model will capture area dashed in red above
• Extents will include some of the immediate site context such as streets, sidewalks, buildings, trees, etc.
• Adjacent historic buildings on the site must be drawn in CAD and capture major details, changes in materials, etc. This will be used for both laser cutting and final elevation drawings

**RELATED READING/VIDEOS**

**PROGRAMMING**
- Pena, William M. *Problem Seeking: An Architectural Programming Primer*. HOK.

**PRECEDENT ANALYSIS**

**LIBRARY STUDIES**

HISTORIC CONTEXTS ANALYSIS


• Juhani Pallasmaa, “Tradition and Newness” https://youtu.be/Rg9_XxxdNxg