ARC 3723 | EBS II

Assignment 8: Low Energy Case Study - Final Paper

Due: **May 5th** (end of day). Upload PDF to Canvas.

Readings:

- Heating, Cooling, Lighting: Sustainable Design Methods for Architects | Chapter 19 – Synergies, Chapter 20 – Integrated Design Process, Chapter 22 – Checklist for Designing Integrated Sustainable Buildings (4th Edition – Chapters 8, 18 & 19)
- Synergies and IDP (PDF on website)

Assignment: *Low Energy Case Study - Final Paper*

Building from your abstracts and graphic reports, your final case study should further research your selected project regarding *"synergies"* and sustainable design strategies.

A *synergy* is an integration of sustainable strategies that have a positive symbiotic performance to reduce the environmental impact of a building. Multiple sustainable strategies come together to form symbiotic components of a sustainable system to inform a synergy. - Lechner

Examples: Energy synergy, solar synergy, water synergy, cooling/heating synergy, daylighting synergy (reference *Synergies* lecture on website)

Groups: Work in groups of 2 or 3.

Final hand in / PDF format:

- Minimum 3000 word count / Maximum 5000 word count
- Diagrams and images needed to support the research and text
- Chicago style format
- Case study should have an introduction and conclusion
- Text and images need to be correctly cited and have a works referenced page

Evaluation

- 60% Research and explanation of *synergies* and sustainable design strategies in your case study (both design and technical explanations)
- 20% Pertinence and quality of diagrams / illustrations / images
- 10% Conclusion / Reflection
- 5% Formatting and clarity of text
- 5% References and citations (text and all images)