1) ID: Christina Chen

2) ADVISORS: (Spring) Cupkova; Hayes

3) TITLE:

4) SUBJECT: I am interested in exploring the topic of adaptable housing in a waterfront or underwater environment. Using the basis of sustainability, I am looking to examine how humans can begin to inhabit the underwater realm. It is important for this project to maintain the conditions of inhabited environments and leave as little of an impact on the existing land and other species' habitats. To do so, I plan on looking at how certain aqueous animals have created their own natural dwellings. I am therefore looking at how the underwater house can begin to adopt natural properties that animals such as shellfish utilize in order to survive in their biological settings. This puts focus more on the adaptability of the design than on the systematic or technical aspects of being underwater.

5) THESIS: With the rise of water levels, an adaptive, underwater housing prototype will introduce the realm of underwater living as a possible site for future housing construction.

6) METHODS: Precedent research will be essential in developing design ideas and defining a basis for prototyping an underwater building. In addition to library and online research, I think it would be beneficial to visit aquariums. From this I can get a clearer understanding of how aqueous animals interact in their environments and with one another. I can also look at the aquarium as a building—where it is located site wise and how that may affect/is defined by its aqueous inhabitants' needs.

7) PRECEDENTS: In my preliminary research, I have found some case studies that can serve as precedents to my thesis project. Among these include Ithaa Undersea Restaurant in the Maldives and Lloyd Godson's prototype BioSUB. These are actual underwater projects, but I will also look at waterfront projects that are prominent here in Copenhagen as well as in other European harbor cities like Amsterdam. From these projects, I can see how these buildings address the water while providing stable, interactive environments for its occupants.





8)





9) SCHEDULE:

September 2013								
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
1	2	3	4	5	6	7		
8	9 • Proposal	10	• Research	12	13	14 • Revise pro- posal		
15 • Revise pro- posal	16 • Proposal revision DUE	17	• Research	19	20	€ Final proposal		
22 • Final proposal	23 • Final proposal DUE	24	25 • Thesis Book – gather materi-	26	27	28 • Thesis Book – gather materi-		
29	30	1	2 • Thesis Book – gather materi-	3	4	5 • Thesis Book – gather materi-		

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Saturday	Friday	Thursday	Wednesday	Tuesday	Monday	Sunday
 Thesis Book gather mate 	4	3	2 • Thesis Book – gather materi-	1	30	29
 Thesis Book material cor pilation and arrangemen 	11	10	9 • Thesis Book – material com- pilation and arrangement	8	7	6
 Thesis Book adjustments 	18	17	16 • Thesis Book – material com- pilation and arrangement	15	14	13
• Thesis Book corrections	25	24	23	22	21 • Thesis Book - DUE	20 Thesis Book – adjustments
 Thesis Book corrections 	1	31	30 • Thesis Book corrections	29	28	27
)13	vember 20	No		
Saturday	Friday	Thursday	Wednesday	Tuesday	Monday	Sunday
 Thesis Book corrections 	1	31	30 • Thesis Book corrections	29	28	27
 Thesis Book additions 	8	7	6 • Thesis Book additions	5	4	3
		14	13	12	11	10
1 • Thesis Book additions	15	14	 Thesis Book additions 			
1 •Thesis Book additions 2 •Thesis Book additions	22	21	• Thesis Book additions 20 • Thesis Book additions	19	18	17

December 2013								
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
1	2	3	4 • Thesis Final prep	5	6	7 • Thesis Final adjustments		
 Thesis Final adjustments 	9	10	 Thesis Final adjustments 	12 • Thesis Final adjustments	13 • Thesis Final DUE	14		
15	16	17	18	19	20	21		
22	23	24	25	26	27	28		
29	30	31	1	2	3	4		

10) ANNOTATED BIBLIOGRAPHY:

Waterfront housing—for preliminary research on the initial stages of design for the adaptation of the underwater habitat

Hoyle, Brian. "Urban Waterfront Revitalization in Developing Countries: The Example of Zanzibar's Stone Town." *The Geographical Journal*. no. 2 (2002): 141-162. http://www.jstor.org/stable/3451614.

Minca, Claudio. "Urban Waterfront Evolution: The Case of Trieste." *Geography*. no. 3 (1995): 225-234. http://www.jstor.org/stable/40572667.

Pryce, Gwilym, and Yu Chen. "Flood risk and the consequences for housing of a changing climate: An international perspective." *Risk Management*. no. 4 (2011): 228-246. http://www.jstor.org/stable/41407075.

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Case studies: underwater habitats—looking at the locations of the projects and design considerations for underwater building construction and human survival

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Weis, Judith S. *Walking Sideways: The Remarkable World of Crabs*. Cornell University Press, 2012. http://www.jstor.org/stable/10.7591/j.cttn34xc.