

**ADVANCED PLANNING STUDIO: COMMUNITY ENGAGEMENT FOR COASTAL RESILIENCE**  
**Urban Design and Planning 508B (5.0) SLN 23304 • Au 18 • MW 1:30-5:20 • Gould 416 • Studio Tel 616-9006**

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**STUDIO TOPIC – COMMUNITY ENGAGEMENT FOR COASTAL RESILIENCE**

The Autumn 2018 URBDP 508B Advanced Urban Planning studio focuses on community engagement for coastal resilience, with the City of Westport and Shoalwater Bay Tribe as partners. The studio centers on preparation, implementation, and documentation of a workshop with community leaders and residents that combines asset-based community mapping techniques with coastal hazard mapping using the latest scientific models and WeTable interactive participatory GIS technology. Our practical goals are to:

- Engage a broad range of local community members as well as municipal and agency stakeholders, including residents, the City of Westport, Shoalwater Bay Tribe, Grays Harbor County, Pacific County, State and local emergency management agencies, Federal representatives, and other stakeholders representing coastal ecology, transportation, public health, education, local businesses and historic resources
- Support ongoing efforts to improve community resilience in the City of Westport and surrounding areas, including collaborative efforts among multiple coastal communities
- Identify opportunities for integrating equitable and just localized hazards planning with general community development planning, urban design and public health via the City's Comprehensive Plan update and other infrastructural improvements, including transportation and telecommunications
- Learn from the successes won and challenges faced by the City of Westport and its residents to inform ongoing policy decisions around hazard planning and to share lessons learned with other communities both within our region and beyond

We will also address the following general questions:

- How do communities plan with uncertain information about future hazards (possibly including cumulative/frequent hazards like sea level rise and storm flooding as well as catastrophic and rare hazards like earthquakes and tsunamis)?
- How do social networks enable adaptive responses to these hazards, especially given unique characteristics of place, and different telecommunication and transportation infrastructure interventions?
- How can mapping local assets and values as well as hazards and vulnerabilities, help communities envision positive future, and plan both for long-term adaptation in the face of infrequent, unpredictable but consequential changes, as well as short- and medium-term developmental and environmental goals? What would be the desired “new normal” and “build-back-better” scenarios post-earthquake-and-tsunami? How can this vision evolve from the current situation and plan? How do we get from here to there?

The studio welcomes an interdisciplinary mix of professional and graduate students in Urban Planning, Architecture, Landscape Architecture, Civil & Environmental Engineering and Public Policy, as well as other fields using creative mapping and hazards visualization techniques and

data. Students will have an opportunity to learn FEMA's Hazus GIS software for disaster loss estimation. The studio will involve multiple visits to coastal Grays Harbor and Willapa Bay. Travel and overnight accommodation costs for those trips will be covered.

URBDP 508 satisfies the 1<sup>st</sup> studio requirement for the Master of Urban Planning (MUP), for students whose prior planning studio experience allowed them to waive URBDP 507. For MUP students with a demonstrated commitment to hazards resilience studies, this URBDP 508B course also satisfies the advanced 2<sup>nd</sup> studio for the Urban Design specialization. For MArch, BLArch and MLArch students, this course also satisfies the 2<sup>nd</sup> or 3<sup>rd</sup> studio requirement for the Certificate of Urban Design.

### **COMMUNITY SITE, PARTNERS AND SUPPORT**

The studio is partnering with the City of Westport, Grays Harbor County, and Shoalwater Bay Tribe in Tokeland, Pacific County, in coordination with state and local agencies in emergency management, coastal ecology, transportation and public health. Westport and Shoalwater Bay Tribe are the first communities in North America to build tsunami vertical evacuation structures. This studio is supported through the UW NSF-funded M9 project for development of new probabilistic information about hazards associated with a Magnitude 9 (M9) Cascadia Subduction Zone (CSZ) earthquake, and a Bullitt Foundation grant for building community adaptive capacity. The studio will be well-positioned to inform ongoing local and regional policy, planning and design for hazards and climate change, and contribute to advances in our understanding of community resilience and risk communication.

### **OBJECTIVES AND PRODUCT**

Specific deliverables to be determined during Phase I of the studio based on further discussions with community partners.

- Recommendations for localizing county hazard mitigation plan to Westport conditions
- Recommendations for integration of hazard mitigation plan with city Comprehensive Plan update
- Randy, Frank & Ian Miller: appropriate maps for WeTable (e.g. mean high water? King tides? SLR?)
- Outreach materials, flyers, infographics, etc (possibly multi-lingual e.g. in Spanish, Ukrainian, Tagalog)

### **STUDIO FORMAT AND CULTURE**

This is an exceptionally multidisciplinary studio. A separate document on Studio Format and Culture is provided as a supplement to this syllabus. Even if you are familiar with the planning studio format, it will be useful to review that document.

**SCHEDULE**

**Weeks 1-3. Phase I – Initial Community Engagement and Workshop Protocol Design**

In this phase, students develop background understanding of the project’s goals, gather basic site and community information, develop and practice options for workshop protocol using WeTable, and visit Westport for a visual reconnaissance, possibly conduct interviews, and attend a planning meeting to test protocol options and decide which one will be most useful.

Wednesday 9/26      First meeting: introductions; discuss topic, schedule, logistics, references and tools.  
 3:30 Guest presentations by Tohoku University International Research Institute of Disaster Science (IRIDeS), “Learning from Japan: Sharing Stories & Experiences Pre-disaster planning and post-disaster recovery after the Great East Japan Earthquake of 2011”

*Lan absent; Katie absent 1:30-2; 2:30-4pm*

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Monday 10/1            2:00-3:00 Guest presentation by Bob Freitag: Tsunami hazards and floodplains management; Project Safe Haven tsunami vertical evacuation planning.  
 3:00-4:30 Overview of community engagement methods by Dan Abramson  
 4:30 WeTable introduction

Wednesday 10/3      2:00-3:30 Guest presentation by Frank Gonzalez: Tsunami modeling for the Washington coast (Tsunami 101 + uses of models in emergency management)  
 3:30-4:30 Basic planning documents report-back  
 4:30-5:30 Group work/WeTable and mapping practice

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Monday 10/8            2:00/2:30-3:30 Guest presentation by Kiana Ballo: Westport as a place and community  
 3:30-5:30 Group work on stakeholder-specific engagement

Wednesday 10/10      2:00-3:30 Guest presentation by Glenn Coil: Hazard mitigation planning with tribes.  
 3:30-5:30 Group work/Site visit prep/WeTable practice

<b>Friday-Sunday 10/12-14 in Westport &amp; Tokeland</b>	<b>Mid-planning meeting and site visit.</b> Students visit Westport to learn about the planning context, meet with community stakeholders, and test different approaches to using participatory GIS in preparation for a November workshop. Students also visit Tokeland to learn about Shoalwater Bay Tribe’s preparedness and adaptation plans. Meet with Lee Shipman?
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**Weeks 4, 5, 6, 7 and 8. Phase II – Workshop Protocol Refinement; Pilot with Laurelhurst; implementation in Westport**

In this phase, students prepare and conduct community workshop, using protocol determined at end of Phase I, further practice WeTable technology and populate GIS reference layers.

Monday 10/15      Review planning meeting; adopt roles for community workshop (GIS facilitator; discussion facilitator; notetaker; etc.).  
 Group work/workshop prep

Wednesday 10/17      Group work/workshop prep

Monday 10/22      Frank/Randy/Loyce on specific scenarios for WeTable  
 More WeTable practice; create/augment reference layers in GIS

Wednesday 10/24      Group work/workshop prep  
*Katie absent*

Monday 10/29      **Laurelhurst/LEAP orientation with Amy Fouke**  
*Katie absent*

Wednesday 10/31      Group work/workshop prep

Monday 11/5      **2-3pm Final planning meeting** The steering committee and students will have a final meeting to review and revise workshop activities. The meeting will occur in a webinar format. The steering committee and students will be in different locations and discussion will occur online.

Wednesday 11/7      Group work/workshop prep  
*Evening: Laurelhurst community mapping workshop*

Monday 11/12      VETERAN’S DAY HOLIDAY — no class

Wednesday 11/14      Group work/workshop prep  
*Evening: Earth Lab demonstration of WeTable community mapping*

**Friday-Sunday 11/16-18 in Westport**      **Workshop.** The City of Westport and the UW team will co-host a participatory GIS-enabled workshop to engage community stakeholders in asset mapping and visioning activities designed to support the shared goals listed above.

- **Friday 2:00-4:30 Agency workshop (McCausland Hall)**
- **Saturday 1:00-4:00 Public workshop (Ocosta School multipurpose room)**

**Weeks 9, 10, 11 and 12. Phase III** – Workshop follow-up and documentation; integration of findings with Comprehensive Plan update; design concepts; report synthesis

Monday 11/19      Review community workshop; define and allocate tasks for follow-up and documentation.

Wednesday 11/21      Group work on final products.

<b>Holiday</b>	<b>Thanksgiving</b>
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Monday 11/26      Group work on final products.

Wednesday 11/28      Group work on final products.

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Monday 12/3      **Due and Present for Final Review:** completed designs and draft guidelines

Wednesday 12/5      Synthesize final report; policy and design concepts.

<b>12/7-9 in Westport</b>	<b>Presentation to the community.</b> Students summarize workshop outcomes and present their studio projects as well as suggestions for potential next steps.
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Monday 12/12      **DUE: Final Report**

*Katie absent*

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