

CWU

Accessibility Education:

A New Certificate and Undergraduate Minor in Accessibility Studies

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www.cwu.edu/accessibility-studies

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Accessibility Education

Today's Workshop

Why?

1. Marketable skills.
2. Meaningful.

What is it?


Online courses.

How do you make it happen?






Educational Assessment Course

- Performance Assessment Design
- Planning / Teaching / Assessment Cycle
- Integrated Instructional Decisions



The instructional challenge in an education course... ...walk the talk!

- Teach what they need to learn
- Demonstrate how they will need to teach...
 - Engaging ALL students, of ALL abilities.

A disaster waiting to happen....

A tried and true lesson (that had not been tried on a truly representative group).

Conceptual Engagement
 Graphic Organizers
 Metaphor
 Personal Participation
 Manipulatives (e.g., "I have a card, I have a card, I have a card")



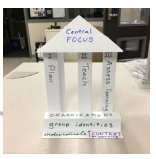
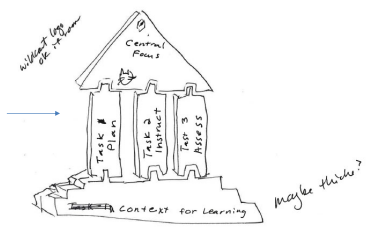
Reality check!



An inspiration

Multimodal Education Center

- Conveniently Located
- Demonstrating Cool Stuff
- Lots of Helpful Folks

Collaboration



- **Disability Services**

Wendy Holden, Director

- **Professional Education Program**

Naomi Jeffery Petersen, Faculty Coordinator

Our prototype!

- Dozens of design hours
- Several printing failures
- LOTS of learning about the logic of Braille
- And the logic of 3-D

Hollingsworth, F., & Petersen, N. J. (Nov, 2017) Tactile Teachables: Expanding Accessibility with 3D Printing. *Educause (Editors' Pick)*.
https://er.educause.edu/articles/2017/11/tactile-teachables-expanding-accessibility-with-3d-printing?utm_source=informz&utm_medium=Email&utm_campaign=ER#_zs7W2Me1_zlcisM4



Forrest Hollingsworth

But a new inspiration trajectory...

Classroom Teachers could use this knowledge....

Phase I: Discussion of core concepts

Phase II: Collaboration

Phase III: Prototyping and feedback

Phase IV: Design Process

Phase V: Final Product

*...so let's keep track
and write a manual
for others to use*

There's a crying need for people with these skills!

Let's offer classes!

We need an academic voice for people with disabilities... which is everyone!

Accessibility Studies

Online Certificate or Minor

Developing competence in recognizing where, when, and how to include people with varying degrees of ability.

www.cwu.edu/Accessibility-Studies

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305 325 435 Elective Capstone

ASP 305 Accessibility & User Experience.

Quality of life issues of accessibility in everyday experiences and environments. Changes in laws and attitudes about the need for proactive accessible design. Current careers requiring competence in troubleshooting accessibility.

4 credits. Fall, Winter, Spring, Summer.

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305 325 435 Elective Capstone

ASP 325 Universal Design

Proactive accessibility design for high incidence problems in commercial, leisure, occupational, and personal living spaces. Assistive technology, adapted architecture, differentiated activity. Standards for safety and equity.

4 credits. Online. Winter, Summer

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305 325 **435** Elective Capstone

ASP 435 Accessible Information Design

Standards for public communication, such as advertising and agency information. Effective Job coaching. Issues of disclosure and advocacy. Laws and civil rights legislation and court decisions. Social justice and social psychology.

5 credits. Online. Spring, Summer.

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305 325 435 **Elective** Capstone

ASP 187 Special Topics in Accessibility

5 credit. Online. Fall 2019

Not required for the ASP Certificate.
Part of the new General Education Program.

Freaks, Geeks & Heroes: How Disabilities are Depicted in Popular Media & Games

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305 325 435 **Elective** Capstone

ASP 490 Accessibility Internship

ASP 492 Accessibility Practicum

Field experience in a real-world context for observing, analyzing and investigating principles and issues crucial to developing competence in understanding efforts to minimize barriers for all people, especially those with specific limitations in their perception or mobility.

1-12 credit. Arranged individually.

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305 UX Stage 2 UD Stage 3 IT **Elective** Capstone

ASP 485 Accessibility Capstone

Experiential-based capstone course. Accessibility competence demonstrated in portfolio and capstone project. Laboratory time will include a variety of service learning, professional visits and applied practical experience. Strategies for engaging stakeholders in trouble-shooting accommodations.

3 credit. Online. Arranged individually.

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But how did the program happen?

- Phase I: *Curriculum Development Procedures*
- Phase II: *Collaboration, Communication*
- Phase III: *Feedback Feedback Feedback*
- Phase IV: *Curriculum Approval*
- Phase V: *Recruiting*







What are the hurdles?

Two groups serving the same population

Faculty



Disability Services

SWOT		
	 <i>Universal Design for Learning</i> = Better Focus & Format	
	Accessibility Studies Program = Better Visibility and Voice	
	Not enough resources and expertise.	

Program Landmarks

- June 2016 Curriculum developed.
- Feb 2017 Degrees approved.
- Mar 2017 First course offered.
- May 2017 [Diversability Day](#) launch.
- June 2017 First integrated summer session.
- Sep 2017 First program completers.

How is the program going?

Courses are offered regularly.

Course	Summer	Fall	Winter	Spring
ASP 305 Accessibility & User Experience	X	X	X	X
ASP 325 Universal Design	X		X	
ASP 435 Accessible Information Design	X			X
ASP 485 Accessibility Capstone	X			X

Courses are revised in response to assessments.

Qualified faculty are cohesive and dynamic.

Online application system is working well.

The program continues to develop.

- Students are requesting optional internships.
- A graduate specialization is in progress.
- An interdisciplinary major is in progress.
- The new general education program includes ASP courses.

ASP courses are now electives in other programs

- Museum Studies
- Sports Management
- Family and Child Life
- Social Services
- Interdisciplinary Social Science

Advising materials are now available for many undergraduate programs and careers

- Teachers
- HR Professionals
- Computer Science

Accessibility issues are a component of anthropological study.

Social Model of Disability

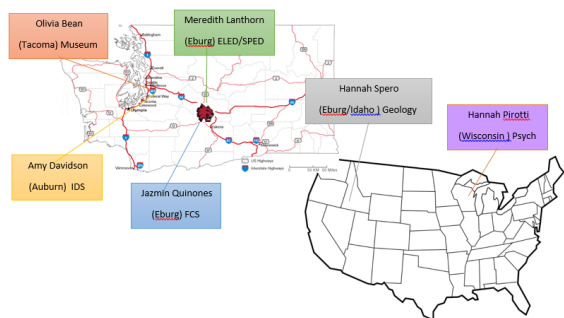
- Unlike the medical model.
- Environment is the disabling factor.
- Stigma is a significant cultural barrier.

Anthropology

- Being human is an integration of biological, cultural, material and linguistic capacities.
- Focus on culture and cultural diversity.



A few ASP Capstone projects



ASP 485 Accessibility Capstones

Amy Davidson	Guidelines for Accessible Documents at Green River Community College
Olivia Bean	Accessible Museum Experiences
Meredith Lanthorn	Accessibility at the White River Amphitheatre
Jazmin Quinones	Does Everyone Get to Play? A Study of Accessibility in Ellensburg Parks & Recreation
Hannah Perotti	Adults with Autism Navigating the Bus System in Kenosha, Wisconsin
Hannah Spero	Improving Tsunami Hazard Inundation and Evacuation Maps for Port Angeles in the Puget Sound of Washington

305 325 435 Elective Capstone

ASP 305 Accessibility & User Experience.

4 credits. Fall, Winter, Spring, Summer.

LEARNER OUTCOMES:

1. Identify assumptions of mobility, perception, cognition, and engagement regarding common life activities (i.e. ableism).
2. Define disability etiquette.
3. Distinguish between theoretical models of disability, e.g. medical, social, economic, functional, identity, moral, charity, and destiny, and examine the implications of beliefs and attitudes about disability on public and personal perceptions of disability.
4. Differentiate categories and levels of disability and common barriers associated with them (i.e., eligibility and entitlement).
5. Define assistive technologies and their uses.
6. List prominent legal documents and landmark events related to disability and human rights.
7. Survey current careers requiring competence in troubleshooting accessibility.

305 325 435 Elective Capstone

ASP 325 Universal Design

4 credits. Online. Fall, Summer

LEARNER OUTCOMES:

1. Analyze scenarios of interaction for effective inclusion of people with disabilities and limitation.
2. Define principles of universal design.
3. Identify technological applications useful for designing individual accommodation and universal access.
4. Explain compliance with statutory and case law related to disability and human rights, e.g. ADA, in terms of safety, liability.
5. Outline risk management strategies in the context of cost-benefit analyses of implementing accommodations.

305 325 435 Elective Capstone

ASP 435 Accessible Information Design

5 credits. Online. Winter, Summer.

LEARNER OUTCOMES:

1. Identify common barriers to inclusive information in terms of content and medium.
2. Analyze rhetorical implications of accessible information design.
3. Define and illustrate guidelines.
4. Identify and assess technological applications useful for making information accessible.
5. Interpret policy and law as applied to making advertising and other public communication accessible.
6. Outline stakeholder responsibilities and interactions.
7. Explain the importance of communication in emergency circumstances.

305 UX Stage 2 UD Stage 3 IT Elective Capstone

ASP 485 Accessibility Capstone

2-3 credit. Online. Arranged individually.

LEARNER OUTCOMES :

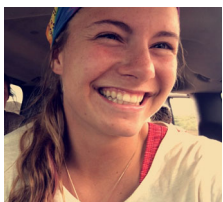
1. Identify common barriers to inclusive information in terms of content and medium.
2. Analyze rhetorical implications of accessible information design.
3. Define and illustrate guidelines.
4. Identify and assess technological applications useful for making information accessible.
5. Interpret policy and law as applied to making advertising and other public communication accessible.
6. Outline stakeholder responsibilities and interactions.

NOTE: Requires comprehensive program exam and colloquium presentation.

Improving Tsunami Hazard Inundation and Evacuation Maps for Port Angeles in the Puget Sound of Washington

By Hannah Spero

- *Geology Major*
- *Accessibility Studies Minor*



Project Goals

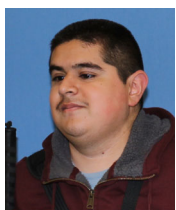
- Future tsunami hazard map revisions
- Emergency management planning
- Re-evaluation of infrastructure
- Saving lives



How Accessible is the CWU Mobile App?

By Humberto Avila

- *Special Education Major*
- *Accessibility Studies Minor*



Points of Pride


- Featured on package of Lammily wheelchair doll accessory.



https://youtu.be/08w11_GfUJA








An online student's view of the Accessibility Studies Program Director
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Not accessible? Not acceptable!



The **Accessibility Studies Certificate** adds value to every career path.

- Know your rights!
- Become an advocate!
- Learn how to spot barriers and solve problems!

Only 20 credits!

Online!

Go to www.cwu.edu/accessibility-studies
Or contact Dr. Petersen at NJP@cwu.edu