

Designing Sustainable Homes that Make Life Easier:

An examination of universal design, aging in place and green building construction practices

with Rosemarie Rossetti, Ph.D.

8 HSW CE Credits

Course Outline Page 1 of 5

8:00 – 8:15

(15 minutes of lecture time)



What is universal design?

Mode: Lecture, PowerPoint

Be able to select the correct words to communicate the definitions and concepts of universal design to your clients.

8:15 – 8:30

(15 minutes of lecture time)



What is accessible design, adaptable design, aging in place and visitability?

Mode: Lecture, PowerPoint, Interactive

Discover the terms and see examples of features used to describe homes that make life easier and level the playing field for people with disabilities. See how accessibility is a component of social sustainability.

8:30 – 9:20



Seven Principles of Universal Design

Mode: Lecture, PowerPoint, Interactive

An overview of the seven principles of universal design will be presented with examples of each principle shown on the slides.

- How the principles were created *(1 minute of lecture time)*
- PRINCIPLE ONE: Equitable Use *(7 minutes of lecture time)*
- PRINCIPLE TWO: Flexibility in Use *(7 minutes of lecture time)*
- PRINCIPLE THREE: Simple and Intuitive Use *(7 minutes of lecture time)*
- PRINCIPLE FOUR: Perceptible Information *(7 minutes of lecture time)*
- PRINCIPLE FIVE: Tolerance for Error *(7 minutes of lecture time)*
- PRINCIPLE SIX: Low Physical Effort *(7 minutes of lecture time)*
- PRINCIPLE SEVEN: Size and Space for Approach and Use *(7 minutes of lecture time)*

9:20 – 10:00

Universal Design in Entries



Mode: Lecture, PowerPoint, Interactive

Illustrate problems and present universal design solutions in entries.

- Creating an approach and parking for cars *(10 minutes of lecture time)*
- Front, rear, side entries *(15 minutes of lecture time)*
- Garage door entries *(15 minutes of lecture time)*
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10:00 – 10:15 Mid-morning break

No Credits Claimed

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10:15 – 11:15



Universal Design in Kitchens

Mode: Lecture, PowerPoint, Interactive

Illustrate problems and present universal design solutions and products in kitchens.

- Kitchen design problems ***(15 minutes of lecture time)***
- Kitchen design solutions ***(15 minutes of lecture time)***
- Kitchen product solutions ***(15 minutes of lecture time)***
- Exercise: Evaluation of kitchen ***(15 minutes of lecture time)***

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11:15 – 12:15

Universal Design in Bathrooms

Mode: Lecture, PowerPoint, Interactive

Illustrate problems and present universal design solutions and products in bathrooms.

- Bathroom design problems *(15 minutes of lecture time)*
- Bathroom design solutions *(15 minutes of lecture time)*
- Bathroom product solutions *(15 minutes of lecture time)*
- Exercise: Evaluation of bathroom *(15 minutes of lecture time)*

12:15 – 1:00 Lunch break

No Credits Claimed

1:00 – 1:20

Universal Design in Laundry Rooms

Mode: Lecture, PowerPoint, Interactive

Illustrate problems and present universal design solutions and products in laundry rooms.

- Laundry room design problems *(5 minutes of lecture time)*
- Laundry room design solutions *(10 minutes of lecture time)*
- Laundry room product solutions *(5 minutes of lecture time)*

1:20 – 2:20

The Universal Design Living Laboratory: A National Demonstration Home

Mode: Lecture, PowerPoint, Interactive

This home in Columbus, Ohio will serve as a case study. The course instructor, who uses a wheelchair for mobility, and her husband, have worked with a national design team and are building this home to showcase universal design, green building and healthy home construction practices. See the renderings, illustrations, floorplan, elevations and photos from the construction process. Hear about the challenges and success they have experienced as they build their new universal design and home. The instructor's first hand experiences will be shared to provide all participants a behind the scenes look into this home. She will highlight the universal design features and describe the green building components and products.

- Architectural design process and elevations *(5 minutes of lecture time)*
- Floorplan and the team design process *(10 minutes of lecture time)*
- Renderings and photos of the kitchen *(15 minutes of lecture time)*
- Renderings and photos of the bathroom *(15 minutes of lecture time)*
- Renderings and photos of the laundry/wardrobe *(15 minutes of lecture time)*

2:20 – 2:50

Green Building Certification Programs

Mode: Lecture, PowerPoint, Interactive

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Discuss an overview of three national green certification programs (LEED for Homes, NAHB, ENERGY STAR) and the process of certification.

- Find information for three national green certification programs **(15 minutes of lecture time)**
- The certification processes **(15 minutes of lecture time)**
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2:50 – 3:05 Mid-afternoon break

No Credits Claimed

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3:05 – 4:05

 **Green Building Techniques**

Describe and illustrate green building techniques when building or remodeling homes.

Mode: Lecture, PowerPoint, Interactive

- Site selection and preparation *(10 minutes of lecture time)*
- Waste management *(5 minutes of lecture time)*
- Building envelope and durability *(15 minutes of lecture time)*
- Landscaping *(10 minutes of lecture time)*
- Water efficiency *(10 minutes of lecture time)*
- Homeowner maintenance and operations *(10 minutes of lecture time)*

4:15 – 5:00

 **Green Building Materials and Products**

Mode: Lecture, PowerPoint, Interactive

- Green products that consumers are looking for *(15 minutes of lecture time)*
- Energy efficient products *(15 minutes of lecture time)*
- Environmentally preferred products *(15 minutes of lecture time)*

5:00 – 5:15

Question & Answer

(15 minutes of discussion time)

Mode: Discussion

Total:	480 minutes of lecture time .8 CEUs
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