

# USP 434/534: Green Buildings

Syllabus

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# Course Overview:

| Lecturer             | Krissy Govertsen  |  |
|----------------------|---|--|
| Term:                | Winter 2025   |  |
| E-mail               | krissyg@pdx.edu   |  |
| Class date and time: | Tuesday's 6:40 PM – 9:20 PM                                   |  |
| Classroom:           | URBN 204  |  |
| Modality:            | In person   |  |
| Office Hours:        | By appointment (remote or in person, location by arrangement) |  |

# Course Description:

An overview of contemporary green building practices and the design and development processes essential to their success. Emphasis on strategies that have the highest economic return and/or the greatest environmental benefits. The full lifecycle of the built environment is considered, from planning and design through construction, operation, and the end of use.

# **Course Materials:**

- Textbook:
  - Free <u>Access through PSU Library</u> (Digital Only): Guide to the LEED Green Associate Exam by Michelle Cotrell.
    - Can be accessed via web browser.
    - Can be fully downloaded and accessed via <u>Adobe Digital Editions</u>.
  - It is not required to buy any books from the bookstore.
- Articles:
  - Available on <u>BuildingGreen</u> through the PSULibrary.
- Websites:
  - Free websites like the <u>water footprint calculator</u>, <u>Appliance Calculator</u>, <u>Carbon footprint calculator</u>, and <u>PV Watts</u>.
- Videos:
  - Available on YouTube, USGBC, or BuildingGreen



# **Equipment Requirements:**

• You will need to be able to access Canvas in the classroom as quizzes and the midterm will happen during course time. A laptop computer is strongly recommended for compatibility and optimal functionality. Mobile devices will not suffice. Tablets may or may not work. User discretion is advised.

# Objectives of the Course/Learning Outcomes:

- Develop the ability to study and pass a professional accreditation exam (Note: the LEED Green Associate exam is the base level for this course. Should a student enter the course with this certification, they may work with the instructor to come up with a custom plan to pursue a second certification. Examples include, but are not limited to, LEED AP with any specialty, WELL AP, or SITES AP).
- Demonstrate comprehension of the primary topical areas addressed in the course: energy and water-conserving strategies, environmental impacts of building materials and land use approaches, financial aspects of "alternative" building approaches and tools to manage transformation in the built environment such as standards, codes, certification, building performance, retrofit, resilience and building deconstruction and reuse.

# **Class Requirements:**

Students are expected to be active in-person participants in this course. Class participation, including active engagement with quest lecturers as well as graded assignments including reflections, quizzes, midterms, presentations and a final report will contribute to final grades.

- 1. Participation: Regular and complete attendance and active participation in class is expected. Lessons from case study research, course readings and direct experience outside the classroom help to set a context for class presentations.
- Reflections to guest lecturers: Students are asked to keep notes on guest lecturers and ask questions about their experience and the topics they covered. Guest lecturer reflections and questions are due 24 hours after class. They should be submitted to Canvas as a one page response.
- 3. Quizzes: There will be weekly graded quizzes on the reading material to intermediately measure reading retention.
- 4. Midterm: There will be a practice LEED Green Associate Exam as a midterm. Students may replace their midterm exam grade with a 100 if they pass the exam prior to 3/15/2025. Students who enter the course with an existing LEED Green Associate Credential, will have the opportunity to pursue another certification of their choice. Schedule a meeting with the instructor to develop a custom plan.



- 5. Final Project:
  - a. Undergraduate students will conduct a thoroughly researched case study of one of the LEED-certified buildings on the Portland State University (PSU) campus. The goal is to analyze how the building achieves its LEED certification and contributes to the campus's sustainability goals, with insights tailored for an article submission to a local magazine, USGBC, or BuildingGreen. To foster a collaborative learning environment, undergraduates should meet regularly to discuss their individual projects, compare notes, and inspire each other with creative ideas and approaches. These meetings should provide an opportunity to exchange constructive feedback, share resources, and develop a deeper understanding of sustainable building practices through group dialogue and mutual encouragement.
  - b. Graduate students: Graduate students will be placed into small groups to conduct a comprehensive analysis of a Portland neighborhood's green building efforts, and propose a new green building for that neighborhood, as part of their final project. This research will focus on green building certifications, energy performance metrics, and sustainability measures in the area. The assignment emphasizes critical thinking, data analysis, and the practical application of sustainability principles to real-world urban settings.
    - i. Note: If a group would like to enter the <u>U.S. EPA RainWorks challenge</u> instead, please speak to the instructor.
- 6. Final Presentation:
  - a. Undergraduates and Graduate groups will present their final project in a ~10 minute presentation to their peers and a panel of guest lecturers. After the presentation they will answer questions about their presentation.

# Grading:

| Assignment                 | Points | Percentage |
|----------------------------|--------|------------|
| Class Participation        | 75     | 13%        |
| Guest Lecturer Reflections | 54     | 9%         |
| Quizzes/Homework           | 170    | 29%        |
| Midterm                    | 100    | 17%        |
| Final Project: Report      | 135    | 23%        |
| Final Presentation         | 24     | 4%         |
| Peer Review                | 24     | 4%         |
| Total                      | 582    | 100%       |



# Course Schedule:

| Weeks | Building Stage      |
|-------|---------------------|
| 1-5   | Planning and Design |
| 6-7   | Operation           |
| 8-10  | End of Life or not? |
| 11    | Final Presentations |



# Week 1 – 1/1/2025: Course Introductions and Logistics

Preparation:

U Week 1

Read LEED Green Associate Candidate Handbook (18 pages)

- 1. Instructor and Student Agenda
- 2. Course Overview
  - a. Syllabus
  - b. Canva Walkthrough
- 3. Lecture 1
  - a. What is Green Building?



Week 2 – 1/14/2025: LEED Green Associate Part 1

Preparation:

| Week 2 Part | 1 |
|-------------|---|
|             |   |

Create an <u>USGBC Account.</u>

- Check the "I am a student" box to receive discounts on exam registration.
  Submit your USGBC profile link via assignments.
- Read <u>Chapter 1 of Guide to the LEED Green Associate Exam (6 pages)</u>
  - Complete Quiz at the End of Chapter (Answers are in Appendix K)
- Read Chapter 2 of Guide to the LEED Green Associate Exam (10 pages)
  - Complete Quiz at the End of Chapter (Answers are in Appendix K)
- U Week 2 Part 2
  - Read Chapter 3 of Guide to the LEED Green Associate Exam (12 pages)
    - Complete Quiz at the End of Chapter (Answers are in Appendix K)
  - Read Chapter 4 of Guide to the LEED Green Associate Exam (6 pages)
    - Complete Quiz at the End of Chapter (Answers are in Appendix K)
- U Week 2 Part 3
  - Read article World Green Building Council Showcases Cost-Effective Green Building Benefits Throughout the World
  - Read <u>Chapter 5 of Guide to the LEED Green Associate Exam (14 pages)</u>
    Complete Quiz at the End of Chapter (Answers are in Appendix K)
- U Week 2 Part 4
  - Read article Green Building 101: What is LEED?
  - Read Chapter 6 of Guide to the LEED Green Associate Exam (16 pages)
    - Complete Quiz at the End of Chapter (Answers are in Appendix K)

- 1. Guest Lecturer 1:
  - a. Daryl M. Pierson, PhD, Director, Planning and Sustainability Office
- 2. Lecture 1:
  - a. Standards, and Codes
- 3. Week 2 Quiz



### Week 3 – 1/21/2025: LEED Green Associate Part 2

Preparation:

| Week 3 Part 1 |                        |
|---------------|------------------------|
| Read Chanter  | 7 of Guide to the LEED |

Read Chapter 7 of Guide to the LEED Green Associate Exam (14 pages)

Complete Quiz at the End of Chapter (Answers are in Appendix K)
 Week 3 Part 2

Read article Green Building 101: What makes a site sustainable?

Read Chapter 8 of Guide to the LEED Green Associate Exam (16 pages)

Complete Quiz at the End of Chapter (Answers are in Appendix K)

Week 3 Part 3

Read article Green Building 101: How does water efficiency impact a building

Read Chapter 9 of Guide to the LEED Green Associate Exam (12 pages)

Complete Quiz at the End of Chapter (Answers are in Appendix K)

U Week 3 Part 4

Read article: <u>Green Building 101: Why is energy efficiency important?</u>

Read Chapter 10 of Guide to the LEED Green Associate Exam (15 pages)

- 4. Guest Lecturer 2:
  - a. Amanda Ingmire, Built Environment Program Co-Lead, Oregon Department of Environmental Quality
- 5. Lecture 2
  - a. Certifications
- 6. Week 3 Quiz



# Week 4 – 1/28/2025: LEED Green Associate Part 3

#### Preparation:

| Week 4 Part 1   |
|---|
| Watch video: <u>"The Story of Stuff"</u>                                    |
| Read article Green Building 101: Sustainable materials and resources        |
| Read Chapter 11 of <u>Guide to the LEED Green Associate Exam (20 pages)</u> |
| Complete Quiz at the End of Chapter (Answers are in Appendix K)             |
| U Week 4 Part 2   |
| Read article Green Building 101: What is indoor environmental quality       |
| Read Chapter 12 of <u>Guide to the LEED Green Associate Exam (18 pages)</u> |
| Complete Quiz at the End of Chapter (Answers are in Appendix K)             |
| U Week 4 Part 3   |
| Read Chapter 13 of Guide to the LEED Green Associate Exam (8 pages)         |
| Complete Quiz at the End of Chapter (Answers are in Appendix K)             |
| U Week 4 Part 4   |
| Read Chapter 14 of <u>Guide to the LEED Green Associate Exam (5 pages)</u>  |
| Complete Quiz at the End of Chapter (Answers are in Appendix K)             |
|   |
|   |

- 7. Guest Lecturer 3:
  - a. Julie McEvoy Baines, Partner, Project Pivot
- 8. Lecture
  - a. Sustainability Analyses
- 9. Week 4 Quiz



Week 5 - 2/4/2025: Midterm

Preparation:

□ Week 5 Review: Midterm Preparation

- Read LEED v4 Rating System Selection Guidance
- Read Guide to LEED Certification: Commercial
- Review the LEED v4 for BD+C: New Construction and Major Renovation Checklist

- 1. Midterm (2 hour time limit)
- 2. Final Project Overview & Group Assignment



# Week 6 – 2/11/2025: Building Performance Standards

Preparation:

□ Home Improvement Plan

- Use the <u>water footprint calculator</u> to estimate the amount of water you consume (gallons per year).
- Use the <u>Appliance Calculator</u> to estimate the amount of energy you consume (kWh per year)
- Use the <u>Carbon footprint calculator</u> to estimate your carbon footprint (Annual CO2 emissions (lbs)).
- Use <u>PV Watts</u> Calculator to estimate the amount of solar your home can generate (use default inputs and draw area on roof) (kWh per year)
- Develop a plan to retrofit and decarbonize.
- □ Summarize your findings in a report.

- 1. Guest Lecturer 4:
  - a. Hetvi Vora, WELL AP, WELL PTA, LEED AP ID+C, Associate, Branch Pattern
- 2. Lecture
  - a. Building Performance Standards
- 3. Home Improvement Plan Comparisons



# Week 7 – 2/18/2025: Operations & Maintenance

Preparation:

- How Buildings Fail Their Users
- Pest Prevention: Steps Designers Can Take
- Post-Occupancy Evaluations: Ignorance Isn't Bliss
- Why Post-Occupancy Review Is the Future of Design (And How It Can Serve You Now)
- Design Strategies for Occupant Engagement—and Why They Boost Performance
- Four Reasons Building Performance Is Worse Than Predicted
- □ Verifying Project Outcomes: Which Metrics Work?

- 1. Guest Lecturer 5:
  - a. Emma Cassavant, Engineering Consultant, Vermont Energy Investment Corp
- 2. Lecture
  - a. Operations and Maintenance
- 3. Week 7 Quiz



# Week 8 – 2/25/2025: Existing Buildings

Preparation:

- Existing Buildings Are Architecture's Future
- The Hidden Science of High-Performance Building Assemblies
- Go with the Flows: The Promise and Peril of Hygrothermal Modeling
- Building Enclosure Commissioning: Ensuring Durable and Energy-Efficient Buildings
- Mind the Gaps: Making Existing Buildings More Airtight

- 1. Guest Lecturer 6
  - a. Alex Boetzel, Head of Residential Innovations, Earth Advantage
- 2. Lecture
  - a. Existing Buildings, Decommissioning and Reuse
- 3. Week 8 Quiz



#### Week 9 - 3/4/2025: Resilience

Preparation:

- An Advocate's Guide to Resilience Regulations
- The Four Core Issues to Tackle for Resilient Design (And the Programs That Can Help)
- □ Focus on Resilient Housing
- Resilient Design: Smarter Building for a Turbulent Future
- □ Submit Project Peer Review on Canvas and Bring 2 printed copies

- 1. Lecture
  - a. Resilience
- 2. Final Project Draft Peer Review
- 3. Week 9 Quiz



# Week 10 – 3/11/2025: Green Building Careers

Preparation:

□ Bring 30 printed copies of your most recently updated resume

- 1. Green Building Careers Overview
- 2. Resume Speed Rounds
- 3. Course Feedback Quiz / Group Work Time



# Week 11 - 3/18/2025: Final Project

Preparation:

- □ Submit Final Report by Sunday 3/16/2025 at 11:59 PM (.pdf)
- □ Submit Final Slides by Monday 3/17/2025 at 11:59 PM (.pdf)
- □ Submit Peer Feedback by Wednesday 3/19/2025 at 11:59 PM on Canvas

Final Agenda:

1. Presentations



# **Class Participation**

| Criteria                                     | Excellent (1.5)  | Proficient (.75)   | Needs Improvement (.5)   |
|--|--|--|--|
| Attendance                                   | Consistently present and on time, with no absences.  | Occasionally absent or tardy, with some notification.              | Frequently absent or tardy without notification.               |
| Attention & Engagement                       | Fully engaged, attentive, and actively participates in lectures.                                 | Occasionally distracted but makes an effort to engage.             | Frequently distracted or disengaged during lectures.           |
| Engagement<br>with Lecture                   | Regularly engages by asking<br>relevant questions and<br>providing thoughtful<br>comments.       | Engages occasionally,<br>providing basic comments or<br>questions. | Rarely engages or responds to lecture material.                |
| Asking<br>Questions of<br>Guest<br>Lecturers | Actively engages with guest<br>lecturers by asking insightful,<br>relevant questions.            | Asks occasional questions, though they may lack depth.             | Does not ask questions or engage with guest speakers.          |
| Providing<br>Peer<br>Feedback &<br>Reviews   | Provides detailed, thoughtful,<br>and constructive peer<br>feedback that enhances<br>group work. | Provides some feedback but lacks constructive depth.               | Does not contribute<br>meaningful peer feedback or<br>reviews. |

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# **Guest Lecturer Reflection**

| Criteria                  | Excellent (3)   | Proficient (2)   | Needs Improvement (1)   |
|---------------------------|---|--|---|
| Attentiveness             | Fully attentive<br>throughout; no mobile<br>devices or distractions.<br>Actively takes notes and<br>demonstrates focus. | Moderately attentive;<br>occasional signs of<br>distraction (e.g.,<br>checking phone but not<br>disruptive). | Disengaged; consistently<br>on mobile device or<br>inattentive to the<br>speaker. |
| Quality                   | Questions are insightful,<br>specific, and clearly<br>connected to the lecture<br>content.                              | Questions are general or<br>lack connection to the<br>specific lecture topic.                                | Does not ask questions<br>or poses irrelevant or<br>inappropriate questions.      |
| Reflection on the Lecture | Provides thoughtful<br>reflections connecting<br>the lecture to course<br>themes or personal<br>insights.               | Reflection is basic, with<br>limited connections or<br>critical thinking about the<br>lecture content.       | Does not provide any reflection or submits irrelevant content.                    |



### Home Improvement Plan Rubric

| Category                             | Excellent (3 Points)  | Proficient (2 Points)   | Needs Improvement (1<br>Point)                               |
|--------------------------------------|---|---|--|
| Baseline                             | Comprehensive and accurate baseline for energy and water usage                    | Baseline includes most<br>data but with minor<br>inaccuracies | Incomplete or inaccurate baseline information                |
| Water<br>Reduction<br>Strategy       | Clear, actionable<br>water-saving strategies<br>with examples and<br>feasibility  | Vague or limited strategies;<br>lacking specifics             | Missing strategy or unrealistic solutions                    |
| Electricity<br>Reduction<br>Strategy | Clear, actionable<br>energy-saving strategies<br>with examples and<br>feasibility | Vague or limited strategies;<br>lacking specifics             | Missing strategy or unrealistic solutions                    |
| Renewable<br>Strategy                | Detailed plan for<br>integrating renewable<br>energy sources; feasible            | Basic suggestions with limited details/relevance              | Missing renewable<br>energy strategy or<br>impractical ideas |
| Cost Analysis                        | Accurate estimates,<br>logical calculations, and<br>clear payback timeline        | Some errors in data or unclear calculations                   | Incomplete or inaccurate<br>analysis                         |
| Presentation                         | Well-organized,<br>professional with<br>charts/tables and clear<br>visuals        | Mostly clear but lacks polish or effective visuals            | Disorganized or hard to<br>follow with minimal<br>visuals    |



# Panel Reviewer Presentation Rubric

| Criteria                                       | Excellent (15-10 points)  | Proficient (5-10 points)   | Needs Improvement (1-5<br>points)   |
|--|---|--|---|
| Research<br>Quality                            | Thorough research, utilizing<br>a variety of sources  | Adequate research, but may lack depth.   | Limited research with minimal sources.  |
| Application of<br>Sustainability<br>Principles | Demonstrates deep<br>understanding of<br>sustainability principles.   | Clear connection between<br>research and sustainability<br>principles (e.g., LEED,<br>energy performance). | Basic understanding of<br>sustainability principles with<br>few connections.      |
| Depth of<br>Analysis                           | In-depth analysis that ties<br>multiple aspects of the<br>project together,<br>showcasing critical thinking<br>and insight into trade-offs. | Provides some analysis, but<br>may miss deeper insights or<br>fail to connect ideas<br>comprehensively.    | Minimal analysis or overly<br>simplistic. Focuses only on<br>surface-level facts. |
| Organization &<br>Structure                    | Well-organized, with a clear<br>structure and logical flow.<br>All required sections<br>included.   | Follows most assignment guidelines.  | Poor organization, missing<br>required sections or unclear<br>flow.               |
| Clarity &<br>Writing Quality                   | Clear, concise, professional writing with few to no grammatical errors.   | Clear writing, but some grammatical errors or awkward phrasing.  | Needs significant revision.   |
| Interviews &<br>Primary Data                   | Strong use of<br>well-integrated interviews<br>that substantiate the<br>analysis.   | Includes some interviews,<br>but they may not be fully<br>integrated or lack depth.                        | Minimal or no primary data<br>or interviews.                                      |
| Visuals &<br>Media                             | High-quality visuals<br>well-integrated into the<br>project, supporting key<br>arguments.   | Adequate visuals, but they may not be well-integrated or are of average quality.                           | Few or low-quality visuals.<br>Not well integrated or<br>irrelevant.              |
| Innovative<br>Insights &<br>Future Vision      | Strong, creative vision for the future.   | Some creative or<br>forward-thinking ideas, but<br>may lack depth.   | No clear future vision or innovative suggestions.                                 |
| Adherence to Requirements                      | Fully adheres to all<br>formatting and submission<br>requirements   | Meets most formatting and submission requirements  | Does not meet basic<br>requirements for formatting<br>or submission.              |

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# Group Work Peer Review Rubric

| Criteria                                | Excellent (3)  | Proficient (2)   | Needs Improvement (1)  |
|---|--|--|--|
| Level of<br>Contribution                | Actively contributed to all<br>aspects of the project,<br>providing valuable input<br>and taking on significant<br>tasks.  | Contributed regularly but<br>may have taken on fewer<br>tasks or shown less initiative.  | Contributed minimally, with<br>little input or involvement in<br>key aspects of the project.   |
| Collaboration<br>and Teamwork           | Demonstrated excellent<br>teamwork, collaborating<br>effectively with other<br>members and offering<br>support where needed.   | Worked well within the group<br>but occasionally struggled<br>with coordination or<br>communication.   | Poor teamwork, lacked<br>coordination, did not<br>collaborate well or had<br>difficulty working with others.   |
| Communication<br>and<br>Engagement      | Consistently<br>communicated ideas<br>clearly, engaged in team<br>discussions, and provided<br>constructive feedback.  | Communicated ideas<br>adequately, but occasionally<br>lacked clarity or engagement<br>in group discussions.  | Limited communication and<br>engagement in group<br>discussions, or contributed<br>little to the decision-making<br>process.   |
| Responsibility<br>and<br>Accountability | Took full responsibility for<br>assigned tasks, met<br>deadlines, and delivered<br>quality work.   | Completed assigned tasks,<br>but sometimes missed<br>deadlines or needed<br>additional guidance.   | Did not meet deadlines, was<br>unclear about<br>responsibilities, or required<br>constant follow-up to<br>complete tasks.  |
| Work Quality<br>and<br>Consistency      | Delivered high-quality work<br>consistently throughout the<br>project, with attention to<br>detail.  | Delivered good quality work,<br>but occasionally lacked<br>attention to detail or<br>consistency.  | Work quality was<br>inconsistent or subpar, with<br>many areas requiring<br>significant revision or<br>improvement.  |
| Support During<br>Presentation          | Actively supported the<br>group during the<br>presentation by speaking<br>clearly, answering<br>questions, and helping with<br>technical aspects. (for<br>undergrads, think about<br>how they supported during<br>presentation practice) | Contributed during the<br>presentation, but may have<br>had limited speaking or<br>technical involvement. (for<br>undergrads, think about how<br>they supported during<br>presentation practice) | Minimal involvement in the<br>presentation, lacked support<br>or failed to actively<br>participate. (for undergrads,<br>think about how they<br>supported during<br>presentation practice) |

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# Final Project Report Rubric

| Criteria                                       | Excellent (15-10 points)  | Proficient (5-10 points)   | Needs Improvement (1-5<br>points)   |
|--|---|--|---|
| Research<br>Quality                            | Thorough research, utilizing<br>a variety of sources  | Adequate research, but may lack depth.   | Limited research with minimal sources.  |
| Application of<br>Sustainability<br>Principles | Demonstrates deep<br>understanding of<br>sustainability principles.   | Clear connection between<br>research and sustainability<br>principles (e.g., LEED,<br>energy performance). | Basic understanding of<br>sustainability principles with<br>few connections.      |
| Depth of<br>Analysis                           | In-depth analysis that ties<br>multiple aspects of the<br>project together,<br>showcasing critical thinking<br>and insight into trade-offs. | Provides some analysis, but<br>may miss deeper insights or<br>fail to connect ideas<br>comprehensively.    | Minimal analysis or overly<br>simplistic. Focuses only on<br>surface-level facts. |
| Organization &<br>Structure                    | Well-organized, with a clear<br>structure and logical flow.<br>All required sections<br>included.   | Follows most assignment guidelines.  | Poor organization, missing<br>required sections or unclear<br>flow.               |
| Clarity &<br>Writing Quality                   | Clear, concise, professional writing with few to no grammatical errors.   | Clear writing, but some grammatical errors or awkward phrasing.  | Needs significant revision.   |
| Interviews &<br>Primary Data                   | Strong use of<br>well-integrated interviews<br>that substantiate the<br>analysis.   | Includes some interviews,<br>but they may not be fully<br>integrated or lack depth.                        | Minimal or no primary data<br>or interviews.                                      |
| Visuals &<br>Media                             | High-quality visuals<br>well-integrated into the<br>project, supporting key<br>arguments.   | Adequate visuals, but they may not be well-integrated or are of average quality.                           | Few or low-quality visuals.<br>Not well integrated or<br>irrelevant.              |
| Innovative<br>Insights &<br>Future Vision      | Strong, creative vision for the future.   | Some creative or<br>forward-thinking ideas, but<br>may lack depth.   | No clear future vision or innovative suggestions.                                 |
| Adherence to<br>Requirements                   | Fully adheres to all<br>formatting and submission<br>requirements   | Meets most formatting and submission requirements  | Does not meet basic requirements for formatting or submission.                    |

