

# Certificate: Sustainability in the Built Environment

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|     | Upon completion of the Certificate: Sustainability in the Built Environment students will be able to:                                                                        |
| 1.  | give examples of systems that reduce reliance on energy intensive, technological design solutions.                                                                           |
| 2.  | describe how local, native, and indigenous knowledge of managing habitat, micro-climate, and resources can inform design.                                                    |
| 3.  | demonstrate appreciation that the built environment accommodates a massive variety of organisms including, but not exclusively human beings.                                 |
| 4.  | explain designers' roles across scales and disciplines, and how the continuum of space informs systems integration                                                           |
| 5.  | find, select, and apply building or landscape performance assessment tools to collect and analyze appropriate metrics.                                                       |
| 6.  | summarize the purpose and process of life cycle assessment.                                                                                                                  |
| 7.  | draw inferences from performance metrics and critique design case studies through a sustainability lens.                                                                     |
| 8.  | articulate triple-bottom line terminology and explain the distinction between sustainability and resiliency strategies.                                                      |
| 9.  | understand that the vocabulary of cognate disciplines will vary and demonstrate graphical and writing techniques to express design intent and purpose with clarity.          |
| 10. | appreciate, but not be hampered by the uncertainties inherent in designing the built environment for a changing and unknown future.                                          |
| 11. | provide examples of allied professionals who work in the sustainability sector, what valuable knowledge they might hold, and how their professional perspectives may differ. |
| 12. | recognize that optimal application of sustainability principles employs integrative design processes and collaboration between professionals.                                |
| 13. | engage in discourse about the role of design in the development of policy and regulation.                                                                                    |