## **SUBJECT INDEX**

Academic programmes, 5	Cognitive load involved in
Academic volunteering programmes,	sustainability decisions,
146, 150, 153, 157	133, 142
Affiliated course, 12	Collaboration, 17–20, 22, 43–44, 93,
Anthropology, 95, 99	101, 111, 122, 127–129, 157
Assessment, 8, 10, 12, 20–21, 28–29,	Collaborative learning, 5, 8, 18, 22–23
33–34, 46, 52–53, 58–59,	Community development, 97
63–64, 102, 109, 111, 122,	Community of learning, 111
127, 130, 134–139	Community, 6, 11–12, 22, 27, 32, 69,
Attitude change, 26, 62, 85, 118–120	77, 80–81, 93–95, 98, 100,
Authentic activity and context, 12, 130	111, 126–129, 143, 153, 159
Authentic learning, 77	Competencies, 8, 10, 12–13, 28,
	31–32, 58, 61–68, 127,
Bachelor level education, 150–151	146–147, 149–151, 154, 158
Barriers to interdisciplinary	Computer Aided Design (CAD), 131,
teaching, 109	133–134, 142–143
Barriers to teaching innovation, 109,	Consumerism, 122, 157
122	Contextualized design problems, 12,
Blended learning, 45	131
Brownfields, 97	Cornerstone design course, 12, 130
	Critical, 7–9, 19–20, 27, 34–35, 58,
Caribbean, 9, 42–51, 53	63, 68, 76, 92–93, 95, 100,
Case based learning, 51–53	121, 127–129, 146, 154–155
Case Study Learning, 37	Cross-course teaching, 109–110, 123
Change, 4, 8–9, 17–18, 26–28, 30,	Curricula design, 26, 33
35, 43, 49, 59–65, 68, 76,	Curricula, 5–6, 8–9, 12, 26–27, 30–32,
82–83, 97, 100, 115–119,	35, 37, 58–61, 77, 80, 130,
122–123, 132, 135, 147,	146
156, 158–159	Curriculum design, 83
Chemistry teaching, 120	Curriculum development, 61
Chicago, 10–11, 92–96, 99–102	Curriculum transformation, 6, 9
Class discussions, 45, 99	Curriculum, 3–13, 31–33, 57–68, 81,
Classification of Instructional	91–104
Programs (CIP) code, 98	
Class-room interventions, 130	Data, 6, 12, 18, 52–53, 59, 64–68, 82,
Climate change, 9, 42–43, 47, 49, 76,	98, 101–102, 112, 138, 150
80, 123	DePaul University, 10, 92, 94, 101
Clothing industry, 11, 109–113, 116,	Developing countries, 16, 50, 53
119–120	Development goals, 147
	r

182 SUBJECT INDEX

Development, 31–33, 44, 64, 96–98 Imperfect, 9 Disciplinary silos, 109 Inequality, 92, 104, 115, 128 Information, 6, 9, 11, 22, 33–34, 36, Ecological responsibility, 108–109 110–111, 114–115, 133, Economic planning, 9, 43, 51 146, 155 Economics, 9, 43, 50–54, 99 Institutional agreements on Education for Sustainable Development sustainability, 108–109 (ESD), 4, 12, 27, 58, 76, Institutional barriers, 11–12, 122 146-147 Integrated care, 8, 17-21 Education for the environment, 51, Interdisciplinary learning, 11, 93 80, 84 Interdisciplinary teaching, 108–123 Interdisciplinary working, 21 Education, 4–7, 26, 29 Educational development, 10, 62, Internship, 95–97, 99–100, 102, 155 76, 87 Knowledge, 4-13, 21-22, 26-27, Employment, 11, 16, 94, 98–103, 115 29-35, 42, 44-45, 47-50, 52, Engineering graphics, 130 Environmental Action Agenda, 94 55, 63–65, 80, 113, 115–116, Environmental attitudes, 63 129, 146–147, 150, 156–158 Environmental decision-making, Lake Michigan, 94, 101 131–132 Environmental sustainability, 6, Learning strategy, 32 Learning, 4-7, 9-12, 19-22, 26-36, 11-12, 85, 95, 100, 131 44, 58–63, 77, 83, 86, 92, Evaluation, 11, 29, 31, 33, 45, 61, 63, 109, 112, 115, 121, 151, 158 95, 99–100, 108, 111, 122, External Representation Design-for-126-127, 129-130, 134-Sustainability, 138 135, 138, 147–148, 156, 158 Level, 7, 9–10, 26–27, 32, 34, 49–50, 61, 65–67, 80, 93, 135, 139 Flipped classroom, 45–46 Food, 29, 31, 33, 49, 94, 148, 150 LinkedIn, 98, 103 Freshman engineering, 125–139 Materialistic values, 11, 112–113, Gentrification, 100 115-116, 120, 122 Geographic Information Systems (GIS), 11, 96, 101–102 Online assessment, 46 Geography, 10, 29, 31, 58, 95, 110, 122 Online learning, 46–47 GIS, 11, 96, 101–102 Graduate students, 77, 80, 83 Pedagogy, 4, 7, 21, 77, 86 Grand challenges, 12, 157 Peer to peer teaching, 121 Green Ribbon Commission, 94 Policies, 10, 19, 29, 51, 94, 100 Policy, 6, 11, 16–17, 19–20, 34, 62, 98, 159 HE minor programs, 150, 151 Higher education, 5–7, 9, 12–13, 42, Product design, 61, 131-133, 137, 142 44, 60, 62–63, 93–94, 126, Psychological distance, 110, 112, 118, 146–148, 151 Housing, 95, 100-101, 134 Psychology teaching, 113, 120

Public Policy, 21, 98

Humanitarian design, 133–134, 143

Subject Index 183

Real-world projects, 12, 127 47–48, 50–54, 80, 86, Reflection, 9, 11–12, 20, 27, 29, 33, 147–149, 108, 146 68, 98, 100, 112, 130, Sustainable development, 5–6, 8–10, 12, 15–22, 26–37, 49, 138–139, 150, 153 58-68, 76, 80, 86, 92-104, Resilience, 20, 44 127, 146-158 Risk, 18, 101, 148–149 Sustainable education, 5, 7, 10, 80 River restoration, 101–102 Sustainable urban development Science, Technology, Engineering, (SUD), 10, 92, 97 and Math (STEM), 99 System-thinking skills, 136 Segregation [racial], 92 Self-awareness, 26–37 Teaching innovations, 109, 122 Serve-Learn-Sustain Centre, 12, 127 Teaching module, 108–123 Teaching-learning model, 126–139 Situated Cognition, 129–130 Team projects, 12, 131, 133, 143 Situated knowledge and learning, 12 Small Island Developing States The True Cost, 110–113, 116, 119–123 (SIDS), 42, 51, 54 Transformative education, 6 Social development, 43–44 Transformative learning, 123 Social justice, 12, 95, 102, 127, 147 Transit-oriented development, 100-101 Social problems, 45–49, 53, 116, 123 Transportation, 94-95, 100, 102 Sociology, 9, 11, 43, 47, 53, 99, 111, 122 Sociotechnical project-based learning, Uncertainty, 9, 146 12, 129-131, 134, 140 United States, 5, 59, 92, 99, 101 South Africa, 152 University/universities, 4–5, 8, 10, Spiral curriculum, 32 26, 42, 44, 58–60, 69, 76, Stakeholders, 11, 35, 46, 61, 93, 127, 108–109, 126, 130, 133, 134, 154 147, 151 Students (graduate; international), Urban design, 95 11, 77, 80–81, 83, 93 Urban development, 10, 94–95, 98, Sustainability, 4–6, 9–10, 42–54, 126, 100, 103 Urban planning, 95, 98, 102 130, 138 Urban studies, 98-99 Sustainability consciousness, 108–109 Sustainability management, 96 Sustainability teaching, 7, 109, 120–121 Wasteful behavior of resources, 131 Sustainable development education, Water resources management, 101 10,92 Wicked food policies, 29 Sustainable development goals Wicked problems, 8, 17–19, 21–22 (SDGs), 8–9, 13, 18, 43–45, Workshop design, 76