```
accommodation, 291
                                             66, 72, 75, 86, 99, 117, 118, 129,
activity(ies), on-site, 31
                                             132, 133, 135, 136–137, 155,
actor(s), 9, 15, 274, 279, 286, 289,
                                             161, 168–169, 172, 178, 180,
    290, 291, 292, 293
                                             203, 213, 247, 263, 266, 276,
affordance(s), 14, 118, 121, 124, 130,
                                             281, 282, 283, 289, 293, 294
    132, 214, 234, 235
                                             architectural, 13, 135
Android, 123–124, 129, 133, 135,
                                             institutional, 13, 132–135
    183, 189–190, 193–195
                                             pedagogical, 13, 136–137
app(s), 117, 119–124, 126, 128–131,
                                        clip(s), 158, 211, 216, 217, 221, 224,
    133, 135, 176, 180, 183–186,
                                             225, 226, 227, 228, 230, 232, 234
    189-202
                                        collaboration, 7, 10–11, 23–24, 35,
                                             37, 48, 55, 68, 87, 90, 103, 120,
application(s), 3–5, 7–8, 10–12, 14,
    29, 58, 62–65, 67, 69–71, 76,
                                             126, 128, 131, 136, 138,
    85–86, 88, 90, 94, 95, 97, 100,
                                             150–151, 155, 169, 172, 273,
    101, 103–104, 107, 109, 117,
                                             283, 285, 290, 292, 294, 297,
    122, 146, 149, 151, 152, 176,
                                             300, 304
    272, 277–279, 283, 286,
                                        communication, 8, 10, 13-14, 19-20,
    288–289, 292
                                             31–33, 37, 43, 47, 49, 51, 54–57,
assimilation, 65, 136, 291
                                             70, 87, 98, 100, 118–119,
                                             126–128, 130, 145, 148,
benefit(s), 7–8, 10, 11, 13, 14, 25, 72,
                                             150–152, 186, 191, 193–195,
    73, 74, 75, 77, 84, 86, 92, 93, 94,
                                             197, 200–201, 209–210,
    95, 101, 107, 110, 120–122, 125,
                                             213–214, 272, 275, 293–294,
    129, 148, 161, 180, 182, 186,
                                             297, 299, 301, 303
    190, 192, 202, 203, 210, 219,
                                             asynchronous, 214
    227, 228, 241, 273, 282, 283
                                             synchronous, 31, 32,
Bloom's Taxonomy, revised,
                                        community(ies), 49, 86, 96–97, 98,
    151 - 152
                                             101, 102, 104, 120, 128, 150,
"Box of Broadcasts", 14, 209-236
                                             171, 220, 246
                                             of practice, 31, 41, 65, 77, 118,
case study(ies), 86, 131, 212, 219,
                                                 120, 131, 185
    226, 233, 291
                                        computer-supported collaborative
challenge(s), 4, 10, 11, 13, 22, 24, 25,
                                             learning (CSCL), 24, 303
    27, 28, 29, 31, 37, 41, 53, 58, 65,
                                        constraint(s), time, 5, 6
```

consumerism, 95, 97 128–133, 135–137, 177, 180, "content anywhere/anytime", 47 185, 247 content, mobile, 59 Dewey, J., 15, 40, 273–275, 278–281, context, 4–5, 7–8, 10–11, 13–16, 21, 286, 289–290, 293 28–29, 32, 41, 43, 55, 59, 62–64, dialogue, 23, 25–27, 32, 39, 90, 97, 66-69, 72, 75-76, 87-89, 96, 98, 210, 226, 229, 234 109-110, 115, 122, 124-125, "Digital Generation", 52–53 134, 152, 160, 162, 169, digital reading, 244. See also e-178–179, 224, 226, 240, 250, textbooks 271–275, 278–279, 281, 286, digitality, 89 289-294, 303 discussion(s), 12, 20, 24, 25, 26, 29, social, 16, 72, 88, 96, 290 30, 32, 33, 35, 36, 37, 86, 96, 98, continuity, 51, 279, 286 100, 107, 110–111, 126–131, course(s), online, 23, 96, 106, 107, 150, 162, 166, 170, 186, 190, 115-138 200-203, 211, 224, 226, 228, creativity, 9, 13, 40, 86–87, 145, 232–236, 245, 263, 264–268, 150–151, 178, 187, 202, 301 273, 281, 288 critique, 156–157, 168, 278 online, 12, 31, 33, 34, 36, 39–42, CSCL. See computer-supported collaborative learning eBook(s), 128 Daytona State College e-textbook, education, continuing, 15, 16, pilot study, 243 271 - 294design, 7, 11, 13, 16, 20–21, 24, education, distance, 24, 49, 71, 124 e-learning, 4, 6, 22-23, 43, 49-50, 32–33, 35, 39, 41, 43, 89, 103, 116, 119, 121, 123–125, 130, 60, 71, 74, 103, 211, 225, 272, 132–133, 135–138, 145–149, 298, 301 151–159, 161–172, 182, 185, engagement, 3, 5–7, 11–12, 14–16, 202, 209–210, 214, 220, 222, 19–21, 23, 25, 27, 29–33, 35, 37, 231, 233, 235–236, 248, 272, 39, 41–43, 47–48, 58–62, 69, 297–298, 300, 303, 306 83–86, 88, 98, 101, 103, 105, process, 146, 147, 152, 154-157, 107–109, 111, 115–117, 122, 162, 166, 169, 172 131, 137, 145–146, 151–152, thinking, 146, 149, 152, 153, 154, 167, 175–177, 179–181, 154, 157 183–185, 187, 189–190, design, educational, 11-12, 19-43 200–203, 209, 212, 215, device(s), mobile, 4, 10, 12, 13, 14, 233–234, 239–241, 243, 48, 49, 50, 51, 53–59, 61, 63, 64, 245–249, 251–253, 255–257, 67, 68, 72, 73, 75, 85, 86, 87, 91, 259–261, 263–265, 267, 271, 98, 101, 103, 107, 111, 116–126, 274, 277, 280, 284, 288–289, 302 Subject Index 321

ePub (technology), 122–123, 128 FirstClass (conference system), 32, e-reader(s), 244, 262, 264, 266 e-textbook(s) Flash (technology), 121, 135 FWBL. See Facilitated Work Based and highlighting, 244, 258, 259, 261, 267 Learning and note-taking, 245 and student engagement, 15 Google, student use of, 192 at Daytona State College, 243 business students use of, 14, Higher Education, 3, 5, 7, 9, 11–15, 246, 265, 266 19, 23, 30, 47–48, 53, 56–57, cost of, 14, 241–242 59–60, 62, 65, 73, 83–91, 93, functionality of, 15, 239, 262, 95–97, 99, 101, 103–105, 264 107–111, 115–117, 121, student preference for print, 124–125, 130, 134, 136, 138, 240, 244 145, 148–149, 175–176, 180, student satisfaction with, 15, 184, 186, 209–210, 212–214, 232, 239–240, 242, 265, 271, 247, 250 297, 299, 302–303, 305–306 experience, 7, 9, 11, 13, 23, 29, 31-32, 39-42, 48, 52, 56-58, 61, curriculum change for 65–66, 76, 93, 98, 103, 117–118, technology inclusion, 109 120, 124, 131, 138, 152, 158, institutional aspects of 165, 172, 183, 186, 203, technological innovation, 211-213, 221, 228, 247, 109 249–250, 262, 264–265, rationales for incorporating mobile technology, 86, 97 274–275, 278–282, 286–287, strategies for incorporating 289-291, 301-302 mobile technology, 87, 105, Facilitated Work Based Learning (FWBL), 15, 271, 273–274, highlighting, 244, 251, 258–263, 267 276–278, 280–294, 304 HTML5, 124, 128 facilitator(s), 11, 29–31, 42, 68, 273–277, 280, 285–287, 293–294 IIMHE. See Integrative Innovation fashion design, 13, 145–149, Model for Higher Education information and communication 151–153, 155–159, 161–165, technology(ies) (ICT), 20-21, 167–172, 306 exhibit, 146, 147 23, 31–32, 33, 35, 51, 70, 210, files, digital, 147, 163 213–214, 230, 236 audio, 147, 168 innovation(s), disruptive, 178–179, visual, 147, 168 181, 202, 203

instructor support for students, 5, 92, 94, 96, 98, 100	148–154, 157–158, 160, 166, 168, 170–172, 175–188,
Integrative Innovation Model for Higher Education (IIMHE),	190–194, 197–198, 200–203, 209–216, 219–222, 224–227,
109	229–230, 232–236, 239–247,
interaction, social, 22, 211 Interdisciplinary Model for	249–251, 253, 257, 259, 261, 263, 265–268, 271–278,
Student-Centered Classrooms,	280–281, 283–290, 293–294,
12, 86, 101–102, 108, 110–111	297–304, 306
interview(s), semi-structured, 210,	active, 13, 25, 85, 87, 89–90, 91,
212, 220, 221, 233	99, 100, 102, 109, 116, 125,
iPhone, 183, 185–186, 190, 192, 197	128, 131, 138, 300
iPod, 166	authentic, 8, 124, 131, 136, 137
issue(s)	context of, 5, 6, 9, 67, 69, 76, 94,
copyright, 162, 163, 165, 211,	179
217–219	contextual, 67, 69
privacy, 73, 211	cooperative, 92–93, 94
technological, 73	cooperative, 92, 94
iTunes, 148, 163, 171	experience, 7, 9, 11, 48, 52, 54,
	57, 58, 76, 93, 116, 117, 118,
knowledge, 8–9, 11, 14, 25–29, 31,	124, 131, 136, 137, 149, 152,
36, 38–39, 42, 52, 61, 63, 66–70,	157, 158, 181, 183, 184, 186,
73, 85–89, 91, 93, 95, 97–98,	203, 211, 212, 213, 272
118, 123, 125, 136, 138, 147,	groups, 91
149–153, 156–158, 161, 163, 165, 169–170, 177, 180,	lifelong, 5, 85, 88, 90, 91, 102, 111, 117
213–215, 219, 228, 233,	meta-, 26, 35
215–215, 215, 228, 235, 235–236, 245, 247, 250, 267,	networked, 31, 32
272–273, 275–278, 280–284,	problem-based, 11, 24–25,
286–287, 292, 298	274–277, 281, 293–294
technological, 213	project-based, 11, 19, 20, 24–26,
technological content, 219	27, 32, 42, 43
technological pedagogical, 219	situational, 6, 7, 51
	technology-enhanced, 58, 212
laptop (computer), 10, 53, 56, 166,	transformative, 26
211, 245, 247, 267	Learning by Teaching
LdL. See Learning by Teaching	(LernendurchLehren, LdL), 13,
learning, 3–16, 19–33, 35, 39–43,	145, 146, 149, 150
47–77, 83–94, 96–104, 107–111,	learning environment(s), 5–7, 16, 20,
115–128, 130–138, 145–146,	26, 30–31, 32, 35, 39, 42, 49,

Subject Index 323

56–57, 76, 89, 91, 93, 96, 98, 99, mobile learning. See M-learning 100, 101, 102, 170, 178, 180, mobile phone(s), 4, 48, 49, 53, 55, 201, 212, 214, 215, 216, 229, 233 57, 72, 182–183 constructivist, 89, 91, 102 mobile technology(ies), 3–16, 48–50, learning management system(s) 53, 54–59, 61, 62, 65, 71, 75, 76, (LMS), 23, 50, 63, 115, 124, 83–111, 115–138, 178, 181, 182, 128, 130, 136–138, 243, 263 183 "Learning Society", 85, 88–89, 90, and Identity, 99 111 and social change, 48 LernendurchLehren (LdL). See and the body, 51 Learning by Teaching mobility, 11, 50–52, 54, 59–60, 68–69, literacy, information, 11, 19, 20, 75–76, 116, 118, 125, 181, 299 26–28, 33, 42, 43 interactional, 52 LMS. See learning management physical, 51, 76 social, 52 system(s) temporal, 52 Master program in ICT and motivation, student, 91 Learning (MIL), 19, 20, 24, 30, MP3 (technology), 51, 53, 56, 64, 31–32, 33, 34, 39 73, 126, 128, 146, 147, 148, 158, material(s), 23, 25, 30, 59, 61, 63, 73, 159, 162, 168, 170, 175, 176, 86, 92, 96, 97, 101–102, 179, 180, 183 105–106, 116–117, 122, MP4 (technology), 146, 147, 148, 125–126, 134, 136, 138, 148, 158, 159, 163, 168 multi-tasking, 179-180, 191-192, 149, 155, 156, 162, 167, 183, 185, 191, 211, 215, 216, 219, 195–196, 200 221, 223, 224, 226–234, 241-243, 247, 252, 264, 273 Organization of Feminist mediation, pedagogic, 67, 70 Classroom, 99–100 M-learning, 4–11, 16, 48–53, 57–65, 67–77, 118, 299 paradigm, 8, 12, 30, 89, 110, 115, activity(ies), 60, 61, 71, 76 118–119, 124, 185, 284–286, methodology(ies), 65, 68 288–289, 294 practice(s), 11, 53, 61, 62–65, 67, educational, 89, 284, 285, 286, 70, 71, 72, 73 289, 294 mobile device(s), 4, 10, 12, 13, 14, production, 284, 285–286, 288, 48, 49, 50, 51, 53, 54, 55–59, 61, 289 63, 64, 67, 68, 72–75, 85, 86, 87, participation, 5, 11, 33, 37, 41, 48, 91, 98, 101, 103, 107, 111, 62, 65, 76, 83, 85–86, 90, 116–126, 128–132, 135, 136, 98–104, 137, 159, 169, 189, 220, 137, 177, 180, 185 230, 256, 276, 282–284, 289, 291

PBL. See problem-based learning problem solving, 26, 172, 272, 274, pedagogy, 13–14, 40, 99–100, 102, 276, 279, 282, 284–286, 288, 306 109, 116, 133–134, 145–146, problem-based learning (PBL), 11, 152–153, 156, 170, 177, 180, 24–25, 274–277, 281, 293, 294 182, 185, 202, 211, 213–214, 225, 233-234, 278, 280, 302 rationality, communicative, 97, 98 feminist, 99, 100, 102, 109 "reflective practitioner", 29 perception(s), 15, 23, 26, 51, 59, 61, reification, 37 62, 69, 84, 104, 110, 201, 212, research, design-based, 209, 233 221, 225, 226, 228, 252, 262, research, qualitative, 176, 188, 192, 264, 265, 274, 288 233 platform(s), 4, 10, 14, 23, 47, 57, RSS feed(s), 120, 128, 148 117, 119, 120–123, 130–132, 135, 137, 159, 162, 247, 262, "self", 93–94 285, 286 self-directed study process(es), 29 playlist(s), 211, 216, 218, 221, sharing, social, 210 223–225, 226, 228, 233 sideline, 287–288, 291 podcast (technology), 13, 48, 55, 64, Skype communication, 3, 4, 6,10, 73, 121, 128, 145–172, 186 12, 31–35, 37, 43, 202–203, 272 portfolio, 153, 156, 164–165, 171, smart device learning, 14, 184, 186 185, 231 smart device(s), 13–14, 175–203 potential, 5–6, 9, 13–14, 16, 26, 42, smartphone(s), 3–4, 10, 48, 53, 56, 57-58, 61, 69, 75, 77, 85, 90, 93, 57, 64, 72, 116, 117, 118, 122, 100–101, 103, 110, 116–118, 126, 129, 131, 132, 135, 137, 121, 126, 132, 136, 138, 146, 146, 148, 149, 166, 176, 177, 148–151, 158, 169–170, 172, 178, 181, 183, 184, 185, 176, 180–187, 202, 219, 186–187, 190, 202, 211, 235, 221–222, 228–229, 232, 246, 264, 272 265, 281–283, 289, 291, 294, 306 for learning, 183–184 practice(s), 11–14, 20, 21, 23, 26–28, learner, 184 30-32, 34-37, 39-42, 50, 53, 57, social constructivism, 8, 127 61–63, 65, 67–74, 76, 85, 89, 93, social-constructivist (theory), 32, 116, 118, 122, 125, 128–129, 149, 150, 151, 170, 185 132, 134, 136, 149, 158, 160, staff, 14, 158–159, 163, 168, 170, 167, 181, 184–186, 203, 184, 186, 203, 210–212, 216, 212-214, 219-226, 229, 230, 219-221, 225-235, 246, 233, 234, 235, 246, 263, 265, 272–273, 285–286, 297, 299 276, 280, 283, 288, 293 streaming media, 14, 210, 214 pragmatism, 15, 97, 273–274, student(s) as co-designer(s), 19, 278–280, 290 35, 42

Subject Index 325

student-centred learning approach, technological pedagogical content knowledge (TPACK), 213, support, 5, 7, 9, 12–14, 30, 32, 39, 219–221, 233 43, 57, 62, 64, 71, 75, 96, 103, technology(ies) 109–111, 117, 122, 126, adoption of, 182 132–135, 138, 145–148, 151, mobile, 3–16, 48–50, 53, 54–59, 156–159, 163, 165, 168–171, 61, 62, 65, 71, 75, 76, 175–176, 182–191, 195, 83–111, 115–138, 178, 181, 198–201, 203, 209–215, 182, 183 219–221, 226–227, 229–230, smart, 176, 177, 179, 180, 181, 233–235, 240–241, 256, 260, 183–188, 200, 201, 202, 203 262, 264, 266, 277–278, 280, ubiquitous, 49, 68, 102, 178 288, 292, 294, 299–302, 305 textbook(s) cost of, 241–242 tablet(s) (computer), 10, 14, 50, 53, open, 240, 245, 264 56, 57, 64, 116, 117, 122, 126, student preference for print, 240 132, 137, 146, 166, 175, 176, students not buying, 242 178, 189, 192 thinking, reflective, 16, 107, 274, teacher's role, 29, 67 279, 286, 289, 291–292, 293 expert, 11, 24, 213 "the third context", 15–16, 271, facilitator, 11, 30, 42, 68, 273–274, 278, 289–292, 293–294 273–277, 280, 285–286, tool box, 130 293-294 TPACK. See technological lecturer, 29-31, 42 pedagogical content knowledge mediator, 11, 29–31, 42, 43 transaction(s), 279, 281, 289, 290, supervisor, 11, 25, 27, 29–30, 31, 292 35, 37, 38, 39 teaching, 3–5, 7–8, 11–15, 20–21, 23, ubiquitous, 5, 8, 10–11, 13, 48–49, 26, 30–31, 42, 47–48, 53, 57, 68, 76, 87, 100, 102, 116, 121, 60-62, 64-65, 67, 70-71, 128, 135–136, 178, 180–181, 74–75, 85, 89, 97, 101, 105–107, 190, 192 109–110, 115–117, 119–121, understanding, 11, 14–16, 20–21, 124–125, 130, 132, 134–135, 26–27, 33, 40, 49, 58, 61–62, 137, 145–152, 156, 165–166, 69, 71, 85, 94, 97, 150, 152, 168–169, 172, 177–178, 185, 154, 158–159, 162, 166, 189–190, 202, 210, 212–213, 179–181, 202, 213, 216, 215-216, 219-221, 224-227, 219, 230, 234, 271, 273–274, 280–282, 284, 286–287, 289, 229–230, 233–235, 268, 273, 275, 277, 297–304 291–294, 305

video, 4, 10, 32, 53, 62, 120, 127, 129, 131, 146–148, 158–162, 164–165, 168, 182–183, 190, 209–211, 214–217, 221–224, 226–227, 229–232, 234–235, 247 vodcast, 147

Web 2.0, 22, 32, 55, 115, 119–121, 185, 209–210, 234, 298, 303 whiteboard(s), interactive, 40–42 Wikipedia, student use of, 15, 246, 252, 257–258, 263, 264 work, 7–9, 11–12, 15–16, 23–38, 40, 42, 51–52, 55–56, 64, 73–74,

86–88, 92–93, 95, 97–98, 105–106, 118–121, 126–127, 130, 133, 136–137, 149–151, 157–160, 162, 169, 172, 175–176, 179–181, 184, 186–188, 190–192, 195, 198–203, 213, 222, 228–231, 245–247, 249, 271, 273–274, 277, 281–286, 288–294, 300, 302, 304

YouTube, 14, 120–121, 127, 148, 151, 162, 209–211, 215–217, 219, 227–228, 231–235