

Idaho PTE Business Education Course with Essential Learning Outcomes and Learning Indicators

Course Title	INTERACTIVE MEDIA: GRAPHICS I		
SDPTE Course ID	BE 0317	IBED	IBED 10202

A course designed to allow students to develop skills in formatting and editing raw visual layouts and illustrations using appropriate print, 3D, and animation software. Skills to be acquired include mapping, lighting, camera techniques, animation planning, and storyboard development. Emphasis is placed on preparing materials to web/print industry standards.

Term	Semester/Trimester	Preq	BE 0273
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Notes:

Career Development CDev_3: Demonstrate Knowledge of Workplace Expectations

CDev_3.2 Relate workplace relationships to career development.

Learning Indicator: CDev_3.2.1	Demonstrate the importance of cooperation among people to accomplish a task
Learning Indicator: CDev_3.2.2	Describe work-related activities in the home, community, and school
Learning Indicator: CDev_3.2.3	Explain the importance of dress code, attendance, and other expectations in the workplace
Learning Indicator: CDev_3.2.4	Explain the importance of respect for the feelings and beliefs of others
Learning Indicator: CDev_3.2.5	Demonstrate appropriate social skills for the workplace
Learning Indicator: CDev_3.2.6	Demonstrate problem-solving skills
Learning Indicator: CDev_3.2.7	Describe how the workplace environment influences behavior
Learning Indicator: CDev_3.2.8	Show how behavior influences the actions of co-workers
Learning Indicator: CDev_3.2.9	Practice appropriate interpersonal skills for working with and for others
Learning Indicator: CDev_3.2.10	Role-play appropriate and inappropriate employer and employee interactions in workplace situations
Learning Indicator: CDev_3.2.11	Role-play teamwork and cooperation in business situations
Learning Indicator: CDev_3.2.12	Discuss the importance of positive attitudes in creating a positive working atmosphere

CDev_3.3 Relate workplace diversity to career development.

Learning Indicator: CDev_3.3.1	Discuss the importance of being able to work productively with people who are different from oneself
Learning Indicator: CDev_3.3.2	Describe ways in which work may be affected by social and economic problems
Learning Indicator: CDev_3.3.3	Provide an example of how personal beliefs and attitudes affect decision-making
Learning Indicator: CDev_3.3.4	Show how behavior towards diversity influences the actions of co-workers
Learning Indicator: CDev_3.3.5	Identify the changing roles of men and women in business and family
Learning Indicator: CDev_3.3.6	Describe different cultural behaviors and expectations
Learning Indicator: CDev_3.3.7	Discuss advantages and disadvantages of entering non-traditional occupations
Learning Indicator: CDev_3.3.8	Identify stereotypes, biases, and discriminatory behaviors that may impact opportunities for protected classes in certain occupations
Learning Indicator: CDev_3.3.9	Discuss social and economic factors that have resulted in changing career patterns for women and men
Learning Indicator: CDev_3.3.10	Specify techniques for eliminating gender bias and stereotyping
Learning Indicator: CDev_3.3.11	Formulate strategies for working effectively with co-workers of varying age groups

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Career Development *CDev_4: Demonstrate Knowledge of Career Strategy*

CDev_4.1 Apply knowledge gained from individual assessment to a comprehensive set of goals and an individual career plan.

Learning Indicator: CDev_4.1.1	Identify likes and dislikes of home and school responsibilities
Learning Indicator: CDev_4.1.2	Relate information derived from self-assessment to career areas involving data, people, and/or things
Learning Indicator: CDev_4.1.3	Relate the importance of career, family, and leisure activities to social and economic well-being
Learning Indicator: CDev_4.1.4	Describe the relationship of assessed interests, aptitudes, and abilities to academic and occupational skills
Learning Indicator: CDev_4.1.5	Apply career goals, skills, and interests to selection of high school courses
Learning Indicator: CDev_4.1.6	Explain how decisions regarding education and work impact major life decisions
Learning Indicator: CDev_4.1.7	Identify considerations for making responsible educational and occupational choices
Learning Indicator: CDev_4.1.8	Identify sources of financial assistance
Learning Indicator: CDev_4.1.9	Complete the steps required to apply for financial assistance
Learning Indicator: CDev_4.1.10	Develop an action plan to transition from postsecondary education to work

Communications *Comm_2: Demonstrate Knowledge of Social Communications*

Comm_2.2 Apply basic social communication skills in personal and professional situations.

Learning Indicator: Comm_2.2.1	Define interpersonal communications and human relations skills
Learning Indicator: Comm_2.2.2	Respect the rights and feelings of others
Learning Indicator: Comm_2.2.3	Demonstrate proper respect for authority
Learning Indicator: Comm_2.2.4	Work cooperatively with one's peers and authority figures
Learning Indicator: Comm_2.2.5	Develop a sensitivity for and awareness of cultural diversity
Learning Indicator: Comm_2.2.6	Practice tact and courtesy in relationships with peers and authority figures
Learning Indicator: Comm_2.2.7	Explain the value of interpersonal communications in personal/social relationships
Learning Indicator: Comm_2.2.8	Model the process for conflict resolution
Learning Indicator: Comm_2.2.9	Address cultural conflicts and identify appropriate solutions
Learning Indicator: Comm_2.2.10	Explain the basic principles of group dynamics
Learning Indicator: Comm_2.2.11	Discuss the types of discrimination and their impact on interpersonal relationships
Learning Indicator: Comm_2.2.12	Explain the purpose of authority
Learning Indicator: Comm_2.2.13	Differentiate among passive, assertive, and aggressive behaviors
Learning Indicator: Comm_2.2.14	Demonstrate appropriate responses to passive, assertive, and aggressive behaviors
Learning Indicator: Comm_2.2.15	Explain the value and impact of interpersonal relationships in the business environment
Learning Indicator: Comm_2.2.16	Practice conflict resolution in academic, social, and business environments
Learning Indicator: Comm_2.2.17	Discuss the negative impact of different types of discrimination
Learning Indicator: Comm_2.2.18	Apply the principles of group dynamics in structured activities
Learning Indicator: Comm_2.2.19	Explain the importance of following chains of command
Learning Indicator: Comm_2.2.20	Discuss discrimination cases and legal precedents

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Information Systems IS_20: Demonstrate Knowledge of Creating Web Multimedia Objects with Industry Standard Software

IS_20.1 Demonstrate ability to create basic images using graphic editing software.

Learning Indicator: IS_20.1.1 Understand graphic software's work environment

Learning Indicator: IS_20.1.2 Working with new and existing documents

Learning Indicator: IS_20.1.3 Working with bitmap Images

Learning Indicator: IS_20.1.4 Creating shapes

Learning Indicator: IS_20.1.5 Create and modify text

Learning Indicator: IS_20.1.6 Working with vector tools

Learning Indicator: IS_20.1.7 Modify multiple vector objects

Learning Indicator: IS_20.1.8 Modifying color

Learning Indicator: IS_20.1.9 Apply filters to objects and text

IS_20.5 Demonstrate ability to integrate graphics into Web pages.

Learning Indicator: IS_20.5.1 Optimize images for best appearance and load speed

Learning Indicator: IS_20.5.2 Export to Web safe formats

Learning Indicator: IS_20.5.3 Integrate graphics with other applications

Information Systems IS_25: Demonstrate Knowledge of Interactive Media - Graphics and Animation

IS_25.1 Demonstrate the ability to develop and create 3D models.

Learning Indicator: IS_25.1.1 Recognize 3D terminology and application interfaces

Learning Indicator: IS_25.1.2 Create a 3D model, including modeling, surface materials, camera, lighting, moving, scaling and rendering

Learning Indicator: IS_25.1.3 Create an environment or background

IS_25.2 Demonstrate the ability to model 3D objects.

Learning Indicator: IS_25.2.1 Use and manipulate 3D graphics

Learning Indicator: IS_25.2.2 Use and manipulate Primitives

Learning Indicator: IS_25.2.3 Create and edit shapes

Learning Indicator: IS_25.2.4 Use editing techniques for models, to include but not limited to extrusion, beveling, grouping, reshaping, lathe/revolve and Boolean

IS_25.3 Demonstrate the ability to apply surface materials to 3D models.

Learning Indicator: IS_25.3.1 Create and apply surface materials, to include color, texture procedurals, luminosity, transparency, reflective and UV mapping

Learning Indicator: IS_25.3.2 Edit surface materials

IS_25.4 Demonstrate the ability to apply lighting and camera techniques for effect.

Learning Indicator: IS_25.4.1 Apply lighting effects to include three point and realistic lighting

Learning Indicator: IS_25.4.2 Identify 3D specific lighting sources such as directional, spot light, global, shadows and point light

Learning Indicator: IS_25.4.3 Apply camera effects such as aspect ratio/film back

Learning Indicator: IS_25.4.4 Use settings and modify camera views such as staging, truck, pan, zoom and dolly

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IS_25.5 **Demonstrate the ability to render 3D models.**

Learning Indicator: IS_25.5.1 Apply the mechanics of rendering (e.g., raytracing, shadows/lighting)

Learning Indicator: IS_25.5.2 Apply output mechanics (e.g., file types, resolution, destination, and naming conventions)

IS_25.6 **Demonstrate the ability to animate 3D models.**

Learning Indicator: IS_25.6.1 Apply the mechanics of animation (e.g., frame rate, keyframing, path and cycle animation, pivot/origin points, FKIK constraints, editing timeline, and rigging)

Learning Indicator: IS_25.6.2 Apply various animation effects such as particle systems and environmental simulations (wind, gravity, and time)

Learning Indicator: IS_25.6.3 Apply principles of animation (e.g., concept drawing character appeal, anticipation, exaggeration, squash and stretch, timing/spacing, staging, overlapping, and arcs)
