SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

ACADEMIC AFFAIRS

Course Number: GRPH 280 Department: Graphic Arts Technology

Course Title: Advanced Professional Digital Photography Semester: Spring Year: 2006

Objectives/Competencies

Course Objective	Competencies
1. Students will apply and use photographic and image processing terminology in appropriate situations.	1. As a result of this course, the student will learn and use the proper terms related to photography, including digital camera equipment, digital imaging software, lighting, and composition.
2. Students will learn how to properly operate a professional-quality digital camera.	1. Demonstrate how to turn the camera on and off. 2. Demonstrate the proper use of each of the program settings including Manual, Aperture Priority, Shutter Priority, and Program modes. 3. Demonstrate the proper way to remove and install camera lenses. 4. Demonstrate how to download images from the camera to the computer. 5. Demonstrate how to remove images from the camera's memory card. 6. Demonstrate how to remove and replace the camera's memory card. 7. Demonstrate proper image focusing using both manual and automatic lens focusing methods.

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	8. Demonstrate how to use the digital camera's advanced features by going through the context-sensitive menu selections.
3. Students will determine the proper exposure for a variety of different subject and lighting situations, and produce sharply focused images by controlling image blur by using appropriate aperture and shutterspeed settings.	1. Determine when a small aperture is needed to produce a maximum amount of depth-of-field. 2. Determine when a large aperture is needed to produce a small amount of depth-of-field. 3. Determine what shutterspeed is needed to freeze moving objects. 4. Determine when a slow shutterspeed is needed to depict motion. 5. Determine appropriate shutterspeed to create a panning effect. 6. Determine the slowest shutterspeed to obtain a sharp image free from camera shake and blur.
4. Students will determine proper lighting and lighting angles based on subject criteria.	1. Demonstrate how to light subjects when doing professional portraiture. 2. Demonstrate how to use ambient and continuous light to properly illuminate subject in a variety of picture-taking situations. 3. Demonstrate where lights should be placed to avoid distracting reflections on the subject.
5. Students will use professional studio lighting equipment to produce professional-quality photographic images.	1. Demonstrate when the symmetrical and asymmetrical power settings should be used on the electronic studio lighting system's powerpack. 2. Demonstrate when the one-quarter, one-half, and full power

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	settings should be used on the electronic lighting system's powerpack. 3. Demonstrate the proper placement of the main light for professional portrait lighting applications. 4. Demonstrate the proper placement of the fill light for professional portrait lighting applications. 5. Demonstrate the proper placement of the background light for professional portrait lighting applications. 6. Demonstrate the proper placement of the hair and kicker lights for professional portrait lighting applications. 7. Demonstrate the proper placement of continuous lights to professionally photograph metallic objects. 8. Demonstrate the proper placement of continuous lights to professionally photograph opaque objects. 9. Demonstrate the proper placement of continuous lights to professionally photograph transparent (glassware) objects. 10. Demonstrate how to use the light table and light cocoon to professionally photograph a variety of different objects.
6. Students will produce visually interesting images in respect to perspective and composition.	1. Identify which lens focal length(s) are necessary to obtain a wide-angle effect which heightens the perspective effect. 2. Identify which lens focal length(s) are necessary to obtain a narrow-angle effect which flattens the perspective effect. 3. Demonstrate subject placement using the law of thirds. 4. Demonstrate subject placement by applying symmetrical and asymmetrical principles of design. 5. Demonstrate the application of lighting and contrast design principles in respect to specific subject criteria.

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7. Students will modify a photograph using digital technologies to improve its quality, usability, and/or special effects.	1. Demonstrate how to make advanced selections using the Photoshop program to selectively apply imaging processing techniques. 2. Demonstrate the methodology of replacing subject backgrounds, including changing the background color for professional portrait photography using Photoshop. 3. Demonstrate the process of reducing or removing noise in grayscale and color photographs in Photoshop. 4. Demonstrate how to get the best quality results when up-sampling digital images using Photoshop. 5. Demonstrate the application of Photoshop's Unsharp Mask to selectively sharpen a digital image. 6. Demonstrate how to create a panoramic photograph by stitching together multiple digital images in Photoshop. 7. Demonstrate how to color correct digital images using the Photoshop program. 8. Demonstrate how to retouch and restore digital images by using Photoshop's Healing Brush, Patch and Clone Stamp tools. 9. Demonstrate how to resize a digital image while still maintaining professional quality using the Photoshop program. 10. Demonstrate the technique of converting a color digital image to grayscale using Photoshop's Lab color mode. 11. Demonstrate how to selectively apply a wide range of filters to a digital image using the Photoshop program.
8. Students will professionally mount and/or display a photograph.	1. Demonstrate how to professionally mount a photograph onto photographic mount board using a dry mount press.

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	2. Demonstrate how to professionally mount a photograph onto photographic mount board using spray adhesives. 3. Demonstrate how to professionally mount cut a window mat to display photographic images. 4. Demonstrate how to professionally frame a photograph.
9. Students will critique the student's own work, and the work of others.	1. Identify which elements of an image work effectively using visually aesthetic and technical criteria, and be able to communicate suggestions to the photographer in a non-threatening, supportive manner. 2. Self-critique photography to identify which elements of an image work effectively using visually aesthetic and technical criteria, and apply that information to improve his/her own work.
10. Students will develop a strong personal point of view.	1. After being presented with a variety of videographic presentations, pictorial web site analysis and other classroom demonstrations and discussions throughout the course, the student will formulate a personal style that will be present in his/her photography in respect to subject criteria, lighting, and composition. .