NEW COURSE: 0855-371

1.0 Title: Dynamic Image Preparation
Credit Hours: 3
Prerequisite(s): 0855-251, 0855-252, 0855-253, 0855-254, 0855-255, 0855-256
Co-requisite(s): None
Course proposed by: D. Cohn

2.0 Course Information:
Quarter(s) offered (check): ___ Fall  X Winter  X Spring  ___ Summer

Students required to take this course (by program and year, as appropriate):
Students choosing the Photo Imaging Specialist concentration in the Arts & Imaging Studies AAS and AOS programs

Students who might elect to take the course:
Students who have completed the pre-requisite course.

3.0 Goals of the course (including rationale for the course when appropriate):
The goals for this course are to provide experiences enabling the student to:
  3.1 Develop reading, writing, analytical thinking, and problem solving skills related to dynamic image preparation
  3.2 Develop the knowledge necessary to plan and produce dynamic photographic images that can be used as part of interactive web pages or stand-alone “virtual” presentations.

4.0 Course description (as it will appear in the RIT Catalog, including pre- and co-requisites, quarters offered):
This course will address various technologies for the capturing and converting of multiple static images into more dynamic presentations of environments, and objects. Topics will include panoramic stitching, creating virtual tours, creating 360 degree views of 3D objects, and creating dynamic slideshows. Prerequisites: 0855-251, 0855-252. Class 2, Lab 3, Credit 3 (F, W, S)

5.0 Possible resources (texts, references, computer packages, etc.):
  5.1 Handouts, manuals, and reference materials
  5.2 Readings from textbooks and professional trade journals
  5.3 Software

6.0 Topics (outline):
6.1 Image Capture
   6.1.1 Finding lens nodal point
   6.1.2 Lighting
   6.1.3 Exposure lock
   6.1.4 Focus lock
   6.1.5 Setting up turntable for objects

6.2 Stitching Techniques
   6.2.1 Automatic software
   6.2.2 Manual techniques

6.3 Printing panoramic images
6.4 Making VR environmental images
6.5 Making VR object images
6.6 Creating dynamic slideshows

7.0 Intended learning outcomes and associated assessment methods of those outcomes:
Upon completion of this course, students will be able to:

| 7.1 Setup proper lighting, exposure, focus, and turntable settings for the proper capture of 3D objects. | Successful completion of projects per specified criteria; testing |
| 7.2 Determine camera lens nodal point and properly mount camera to bracket at this point for proper capture of panoramic images. | Successful completion of projects per specified criteria; testing |
| 7.3 Properly assemble separate images together to form a panoramic image using popular stitching software as well as manual assembly techniques. | Successful completion of projects per specified criteria; testing |
| 7.4 Properly assemble multiple images of a 3 dimensional object to produce a VR object using popular software applications. | Successful completion of projects per specified criteria; testing |
| 7.5 Properly utilize popular software applications to produce VR environmental images. | Successful completion of projects per specified criteria; testing |
| 7.6 Prepare for the job application and interview, resume writing, and portfolio building processes; describe primary skills learned in this course; select and archive projects which may be appropriate for inclusion in a portfolio. | Written assignments, test, project presentations |

8.0 Program or general education goals supported by this course:

| 8.1 In conjunction with other courses in this proposal, prepares students for continued career development in the fields of fine arts, imaging, and publishing. | Program goals a, c, d |
| 8.2 Comprehend and apply instructions and project specifications for dynamic image preparation. | Program goals b, d |
| 8.3 Ability to engage in critical thinking, through | Program goals a, b, c, d |
Expressing and receiving criticism of own and others’ work.

8.4 Manage time effectively and develop conceptual problem-solving and decision-making skills

Program goals b, c, d

9.0 **Other relevant information** (such as special classroom, studio, or lab needs, special scheduling, media requirements, etc.):

9.1 This course will be taught in the Arts & Imaging Studies class and laboratories.
9.2 Each A&IS lab is equipped with individual student workstations, a teacher’s workstation, computer projector, white board, and work table.

10.0 **Supplemental Information:**

10.1 Course requires 5 class/lab hours per week which includes presentations, demonstrations, discussions, critiques & project work time. Outside class/lab time is expected for idea development, and continued work on projects. Students have the option of re-doing a project to improve their grade; this is not an option for quizzes, tests & the final exam