

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	DIG 2142
COURSE TITLE:	Digital Capturing and Streaming
PREREQUISITE(S):	None
COREQUISITE(S):	None
CREDIT HOURS:	3
CONTACT HOURS/WEEK:	4
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	2
Laboratory:	2
Other _____:	
FACULTY WORKLOAD POINTS:	3.7
STANDARDIZED CLASS SIZE ALLOCATION:	24

CATALOGUE COURSE DISCRIPTION:

This course provides each student with an introduction to the basic concepts of digital capturing. The emphasis of the course will focus on applications of digital imaging which combine traditional photographic ideas with digital media. The use and functions of digital cameras will be explored, as will shooting techniques, editing operations and output options. Students will also be introduced to time-based media capture techniques and music streaming techniques. Student must provide a Digital Camera for this course.

SUGGESTED TEXT:

Long, Ben. Complete Digital Photography, Third Edition (Digital Photography Series) (Paperback)

Rubin, Michael. The Little Digital Video Book (Paperback)

IMPLEMENTATION DATE:

Fall Term, 2007 (20081)

REVIEW OR MODIFICATION DATE:

Spring Term, 2008 (20082) (was DIG 2141)

COURSE TOPICS

CONTACT HOURS
PER TOPIC

I.	Scanning Techniques	4
	A. Scanning Techniques	
	B. Resolution	
	C. Scale	
	D. Scanning Types	
II.	History of Photography	4
III.	Photography Basics	4
	A. Lenses	
	1. Focal Length	
	2. Zooms and Primes	
	B. Exposure, Aperture, Shutter Speed and ISO	
	1. Reciprocity	
	2. Lens Speed	
	3. ISO	
IV.	Digital Camera Basics (Mechanics and Functions)	6
	A. Shooting Techniques	
	1. Initial Camera Settings	
	2. Shooting Settings	
	3. Framing and Focusing	
	4. Metering	
	5. Simple Flash Photography	
	6. Power and Storage Management	
	B. Manual Techniques	
	1. Motion Control	
	2. Depth of Field	
	3. Shutter Speed and Depth of Field	
	4. Tonal Control	
	5. Adjusting Exposure	
	6. Brackets and Histograms	

COURSE TOPICS

CONTACT HOURS
PER TOPIC

V.	Special Shooting Techniques	4
	A. Shooting for Production	
	B. Black and White Photography	
	C. Shooting for the Web	
	D. Shooting for Video	
	E. Shooting Panoramas	
	F. Using Filters	
VI.	Preparing Images for Editing	4
	A. Transfer and Organize Images	
	B. Preparing Image Editor	
	C. Opening your Image	
	D. Preparing your Image	
VII.	Digital Image Editing	4
	A. Correcting Tone and Color	
	1. Brightness and Contrast	
	2. Curves	
	3. Levels	
	4. Posterization	
	5. Hue/Saturation	
	B. Editing Techniques	
	1. Brushes	
	2. Healing/Clone Tools	
	3. Masks	
VIII.	Output Options	4
	A. Printing	
	B. Web	
	C. Television/Video	
IX.	History of Moving Image	4

COURSE TOPICS

CONTACT HOURS
PER TOPIC

X.	Introduction to Digital Video	4
	A. Basic Camera Anatomy	
XI.	Using a Digital Video Camera (Mechanics and Functions)	6
	A. How to Shoot	
	B. Structure	
	C. Camera Shots	
	D. Coverage	
	E. Framing	
	F. Lighting	
	G. Sound	
XII.	Digital Video Capture Basics	6
	A. Basic Capture Settings	
	B. Editing Techniques	
XIII.	Audio/Video Streaming	6
	A. Planning and Designing a Podcast	
	B. Creating Broadcast Quality Content	
	C. Converting to MP3 Format	
	D. Publishing Content	
	E. Creating a Podcast Newsfeed	

PROGRAM TITLE: Multi-Media Technology

COURSE TITLE: Digital Capture

CIP NUMBER:

LIST OF PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLE(S):

01.0 USE OF INDUSTRY STANDARD DIGITAL MEDIA/MULTIMEDIA HARDWARE AND SOFTWARE -- The student will be able to:

01.01 Demonstrate the proper handling of equipment used in digital media/multimedia

01.03 Analyze equipment performance to meet industry standards.

03.0 DESIGN AND GENERATE STILL IMAGERY -- The student will be able to:

03.01 Capture, manipulate and apply a still image in a digital media/multimedia project.

03.02 Differentiate and optimize still images.

03.03 Apply elements of design, principles of composition and qualities of light to still images in a digital media/multimedia project.

03.04 Understand the properties of light and how to measure its intensity and color.

03.05 Integrate the use of photographic special effects into digital media/multimedia presentations.

03.06 Evaluate photographic quality using appropriate application.

06.0 USE COMPUTER APPLICATIONS FOR DIGITAL MEDIA/MULTIMEDIA PROJECTS -

The student will be able to:

06.01 Demonstrate a basic proficiency with digital media/multimedia software packages.

06.02 Design and produce digital media/multimedia content.

06.04 Present digital media/multimedia content.

08.0 DEMONSTRATE APPROPRIATE COMMUNICATION SKILLS -- The student will be able to:

08.03 Read and follow written and oral instructions.

08.06 Demonstrate appropriate communication skills.



NOTE: Use either the Tab key or mouse click to move from field to field. The box will expand to accommodate your entry.

<i>Section 1</i>	
COURSE PREFIX AND NUMBER: <u>DIG 2142</u>	SEMESTER CREDIT HOURS: <u>3</u>
COURSE TITLE: <u>Digital Capture</u>	

Section 2

TYPE OF COURSE: (Click on the box to check all that apply)

<input type="checkbox"/> AA Elective	<input checked="" type="checkbox"/> AS Required Professional Course	<input type="checkbox"/> College Prep
<input type="checkbox"/> AS Professional Elective	<input type="checkbox"/> AAS Required Professional Course	<input checked="" type="checkbox"/> Technical Certificate
<input type="checkbox"/> Other _____		
<input type="checkbox"/> General Education: (For General Education courses, you must also complete Section 3 and Section 7)		

Section 3 (If applicable)

INDICATE BELOW THE DISCIPLINE AREA FOR GENERAL EDUCATION COURSES:

<input type="checkbox"/> Communications	<input type="checkbox"/> Social & Behavioral Sciences	<input type="checkbox"/> Mathematics
<input type="checkbox"/> Natural Sciences	<input type="checkbox"/> Humanities	

Section 4

INTELLECTUAL COMPETENCIES:

<input checked="" type="checkbox"/> Reading	<input checked="" type="checkbox"/> Speaking	<input checked="" type="checkbox"/> Critical Analysis	<input checked="" type="checkbox"/> Quantitative Skills	<input type="checkbox"/> Scientific Method of Inquiry
<input type="checkbox"/> Writing	<input checked="" type="checkbox"/> Listening	<input type="checkbox"/> Information Literacy	<input type="checkbox"/> Ethical Judgment	<input checked="" type="checkbox"/> Working Collaboratively

<i>Section 5</i>	
LEARNING OUTCOMES	METHOD OF ASSESSMENT
• Student will become skilled in Digital Photography Techniques.	Applied Classroom Project
• Student will learn the history of Digital and Traditional Photographic Applications.	Test
• Student will understand the use of Digital Video capture techniques	Applied Classroom Project
• Student will gain knowledge in audio/video streaming.	Collaborative Group Project
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Section 6

Name of Person Completing This Form: Julia DeArriba-Montgomery Date: 9/15/06