

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



COURSE OUTLINE

COURSE TITLE: Digital Imaging II
CODE NO. : PHT201 **SEMESTER:** 1
PROGRAM: Digital Photography and Imaging
AUTHOR: Colin Crowell
DATE: April 2016 **PREVIOUS OUTLINE DATED:** 2015
APPROVED: Colin Kirkwood Dec 2015

CHAIR

DATE

TOTAL CREDITS: 4
PREREQUISITE(S): College and program admission requirements.
HOURS/WEEK: 4

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I. COURSE DESCRIPTION:

This course will build on skills learned in Digital Imaging 1 and will strengthen the imaging skills commonly used by professional photographers in the course of editing and correcting their images. This course will expand student's knowledge of post-production techniques related to printing and file formatting to electronic media.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the student will demonstrate the ability to:

1. **The graduate has reliably demonstrated the ability to use post-production techniques to edit and finish images in formats that meet industry standards and the needs of the client.**

Potential Elements of the Performance:

- Use industry standard photo editing software tools and functions proficiently
- Select and use a variety of photo editing techniques to achieve the desired results (e.g., cropping, white balance, noise reduction, resizing, brightness, sharpening, colour correction, retouching, etc.)
- Control and optimize file size and resolution, and choose appropriate file format to ensure that optimum print quality can be achieved from the image file produced
- Select and use appropriate file formats captured both by camera and scanner. (e.g., JPEG, TIFF, PSD) in different sizes and resolutions for use with various media, including print (e.g., matte, glossy, canvas, linen), Web, desktop and mobile devices
- Apply the principles of colour theory (e.g., use of colour, tonal values) to evaluate colour quality and apply corrections where required
- Use colour management techniques and software tools (e.g., colour calibration of input/output devices, colour profiles, colour space) to provide consistency among use of multiple devices and in final image output
- Effectively use industry standard printers and printer interface and management software to prepare print materials for distribution
- Transfer, save, copy, convert and export image files to and from different sources, devices or formats
- Determine the needs of the client in order to finish and distribute images in a format that meets their expectations
- Establish criteria to select appropriate images for finishing and distribution

2. **The graduate has reliably demonstrated the ability to select and use appropriate photographic equipment and techniques to capture quality images* of a variety of subjects, in studio and on location.**

Potential Elements of the Performance:

- Operate a variety of camera types and digital devices (e.g., digital singlelens reflex (DSLR) cameras, digital backs)
- Select the appropriate device, equipment and accessories required for the specific job at hand
- Use basic and advanced camera functions proficiently (e.g., control functions, menus, focus lock, etc.) in both manual and automatic modes
- Select and apply appropriate settings to adjust focus, exposure, shutter speed, aperture, composition, brightness range, lighting, and depth of field
- Use handheld light meters to capture accurate light readings
- Assess and determine the best angles to shoot from in order to achieve intended results
- Select focal length and lenses appropriate to image composition • Select appropriate output file formats (e.g., RAW versus JPEG)
- Operate lighting, metering and triggering equipment, as needed (e.g., flashes, strobes, flash and light meters)
- Apply basic principles of design*, lighting and colour theory to the composition and capture of images in both indoor and outdoor settings

3. **The graduate has reliably demonstrated the ability to create lighting schemes* using appropriate techniques, equipment and accessories to produce quality images* that meet the needs of the client.**

Potential Elements of the Performance:

- Create or adapt various lighting schemes* using different types of light (e.g., tungsten, LED, flash, natural light, ambient light) for image capture in studio, indoor or outdoor settings, in both colour, and black and white
- Apply basic physics principles to the capture and modification of various qualities of light
- Use light modifiers (e.g., softboxes, reflectors, umbrellas, snoots, grids, gobos, etc.) and various light sources (e.g., flash, available, natural, mixed, power packs) to create different lighting effects
- Select and use appropriate lighting equipment and accessories to create the

desired lighting result

- Apply lighting techniques which preserve the authenticity/authentic appearance of available light
- Create appropriate lighting to suit concept and desired mood, atmosphere or appearance
- Design single and multiple light setups, as needed
- Differentiate and create hard and soft light using techniques such as direction, bounce, and diffusion
- Use various classic lighting positions (e.g., hair light, butterfly, split, broad, short, kicker, fill, main, back) to achieve desired effects
- Use in-camera metering techniques (e.g., spot, averaging) to accurately measure continuous light outputs
- Use handheld light meters and metering techniques to accurately measure light readings and/or determine light ratios in various studio and location scenarios
- Apply knowledge of colour temperature theory to use of lighting (e.g., white balance, colour temperature balance, Kelvin rating)

4. **The graduate has reliably demonstrated the ability to develop strategies to maintain currency with evolving photography trends, issues, technologies and industry practices to enhance work performance and guide professional development.**

Potential Elements of the Performance:

- Apply knowledge of art history, history of photography, and great photographic works to enhance one's own artistic approach
- Evaluate photographic images for artistic and technical quality
- Solicit and identify resources and opportunities to pursue ongoing professional development activities (e.g., seminars/conferences, continuing education courses, certifications, trade shows, journals, websites, books, magazines)
- Solicit feedback on one's work from peers, clients and industry professionals
- Compare one's own works to that of others in order to uncover areas for improvement

5. **The graduate has reliably demonstrated the ability to select and use digital asset management* tools and strategies to catalogue, store, back up, retrieve and archive images and prints.**

Potential Elements of the Performance:

- Adapt storage, cataloguing and archival solutions to efficiently cull and prioritize digital images
- Develop an efficient digital workflow system, from point of capture to postproduction to final output
- Use industry standard media storage technology and digital asset and file management* software for organization, storage and retrieval of images

<insert course name here>

<insert course code number here>

- Use methods and strategies to efficiently sort, select and retrieve print or digital images from photography collections (e.g., file nomenclature protocols, hierarchical folder structures, automation of repetitive tasks, etc.)
- Use appropriate hardware devices and software to keyword and tag images
- Select appropriate file formats, methods and tools for long-term file preservation
- Assess the limitations of storage and archiving hardware
- Assess print format archival values (paper type, ink type, printing format) and the life cycle of various media
- Compare different digital file storage and backup systems, solutions and devices (e.g., servers, online storage, portable and mobile storage devices)
- Develop efficient image data backup and recovery strategies
- Use mobile technology to effectively manage digital assets (e.g., tablets, apps, virtual dropboxes)

III. TOPICS:

1. color intro color space COLOR
CONTRAST ISSUES: Saturation.
2. Color Saturation and Contrast
3. Additive and Subtractive Color balancing. SERIES
INTRODUCTION.
4. Threshold Color Balancing
5. Camera Raw- Camera raw color manipulation only.
6. Camera Raw -- To photoshop, shoot to print. Shoot to raw, to photoshop to print.
7. Color balancing Skin
8. Portrait touch-up skin
9. Multiple styles Color, WB... CONTRAST
10. Printing Color
11. Cropping, resizing, Resizing up and sharpening
12. TearSheet: Mimic styles and reverse engineer a process
13. Scanography
14. Changing colors and backdrop texture layers.
15. portfolio prep.

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

All students will be required to use tools and materials specified in the equipment list. In addition students should expect to purchase consumable supplies such as printing paper, mat board, cover stock, etc.

<insert course name here>

<insert course code number here>

V. EVALUATION PROCESS/GRADING SYSTEM:

All assignments = 100% of the grade.

Students must complete all assignments to achieve credit for the course.

Students will be evaluated on their post production work for every assignment given in Commercial and Industrial Lighting.

The following semester grades will be assigned to students:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A+	90 – 100%	4.00
A	80 – 89%	3.00
B	70 - 79%	2.00
C	60 - 69%	1.00
D	50 – 59%	0.00
F (Fail)	49% and below	
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field /clinical placement or non-graded subject area.	
U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.	
X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.	
NR	Grade not reported to Registrar's office.	
W	Student has withdrawn from the course without academic penalty.	

VI. SPECIAL NOTES:Course Outline Amendments:

The professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Retention of Course Outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Prior Learning Assessment:

Students who wish to apply for advance credit transfer (advanced standing) should obtain an Application for Advance Credit from the program coordinator (or the course

<insert course name here>

<insert course code number here>

coordinator regarding a general education transfer request) or academic assistant. Students will be required to provide an unofficial transcript and course outline related to the course in question. Please refer to the Student Academic Calendar of Events for the deadline date by which application must be made for advance standing.

Credit for prior learning will also be given upon successful completion of a challenge exam or portfolio.

Substitute course information is available in the Registrar's office.

Disability Services:

If you are a student with a disability (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Disability Services office. Visit Room E1101 or call Extension 2703 so that support services can be arranged for you.

Communication:

The College considers **WebCT/LMS** as the primary channel of communication for each course. Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information. Success in this course may be directly related to your willingness to take advantage of the **Learning Management System** communication tool.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Code of Conduct*. A professor/instructor may assign a sanction as defined below, or make recommendations to the Academic Chair for disposition of the matter. The professor/instructor may (i) issue a verbal reprimand, (ii) make an assignment of a lower grade with explanation, (iii) require additional academic assignments and issue a lower grade upon completion to the maximum grade “C”, (iv) make an automatic assignment of a failing grade, (v) recommend to the Chair dismissal from the course with the assignment of a failing grade. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Student Portal:

The Sault College portal allows you to view all your student information in one place. **mysaultcollege** gives you personalized access to online resources seven days a week from your home or school computer. Single log-in access allows you to see your personal and financial information, timetable, grades, records of achievement, unofficial transcript, and outstanding obligations. Announcements, news, the academic calendar of events, class cancellations, your learning management system (LMS), and much more are also accessible through the student portal. Go to <https://my.saultcollege.ca>.

<insert course name here>

<insert course code number here>

Electronic Devices in the Classroom:

Students who wish to use electronic devices in the classroom will seek permission of the faculty member before proceeding to record instruction. With the exception of issues related to accommodations of disability, the decision to approve or refuse the request is the responsibility of the faculty member. Recorded classroom instruction will be used only for personal use and will not be used for any other purpose. Recorded classroom instruction will be destroyed at the end of the course. To ensure this, the student is required to return all copies of recorded material to the faculty member by the last day of class in the semester. Where the use of an electronic device has been approved, the student agrees that materials recorded are for his/her use only, are not for distribution, and are the sole property of the College.

Attendance:

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session. *<Optional: It is the departmental policy that once the classroom door has been enclosed, the learning process has begun. Late arrivers will not be granted admission to the room.>*

Tuition Default:

Students who have defaulted on the payment of tuition (tuition has not been paid in full, payments were not deferred or payment plan not honoured) as of the first week of *<choose November, March, or June>* will be removed from placement and clinical activities. This may result in loss of mandatory hours or incomplete course work.

Sault College will not be responsible for incomplete hours or outcomes that are not achieved or any other academic requirement not met as of the result of tuition default. Students are encouraged to communicate with Financial Services with regard to the status of their tuition prior to this deadline to ensure that their financial status does not interfere with academic progress.

Deductions – Lates and fails

Lates:

An assignment is considered late if it is not submitted at the time and date specified by the instructor. A deduction of 35% will be taken from the overall mark of the assignment. Ie: an assignment scoring 85/100 will receive a -35 deduction, leading to a final score of 50/100.

If an assignment deadline is missed the student MUST immediately negotiate a new deadline with the instructor. If a renegotiated deadline is missed the maximum allowable grade is 50% D when the assignment is submitted for evaluation.

A late assignment which is not executed to a minimum D (satisfactory) level will be assigned a fail grade with additional penalties outlined below.

<insert course name here>

<insert course code number here>

Fail:

A fail grade (F) is assessed to an assignment which has not been executed to a minimum satisfactory "D" grade level or in which the directions have not been followed correctly.

Upon achieving a Fail(F) grade (below 50%) the student must meet with the instructor immediately to negotiate a revised deadline. The assignment must be redone to passing standard by the new deadline to achieve credit for the assignment.

Maximum grade for a failed assignment is "C" (65%)

If failed assignments are not submitted by the negotiated deadline the late penalty policy will apply.

Resubmission Policy:

Any assignment completed during this course may be submitted for re-evaluation if the following criteria are met by the student:

- An assignment that was initially submitted past the initial assigned deadline will only be eligible for a maximum grade of C.
- An assignment that initially achieved a fail grade must be resubmitted to achieve minimum project standards and will receive a maximum C grade as indicated under the Lates and Fails section in this outline.
- The resubmitted project must be accompanied by the original project and the original evaluation sheet (with written indication of grade breakdown) provided by the instructor.
- Assignments may be resubmitted at any time during the semester. The final date for last resubmissions will be announced by the professor during class and usually are no later than two weeks prior to the end of the semester.
- Resubmitted assignments must identify the project and class, and be clearly marked "RESUBMISSION" when submitted.
- It must be understood that resubmitted assignments are usually marked with greater scrutiny