

PHIL 250 Philosophy in Literature

(3)

3 hours lecture

Transfer acceptability: CSU; UC

A study of philosophical concepts as they appear in the academic and nonacademic writings of philosophers, and in related writings by nonphilosophers. The writings are examined from the perspectives of both philosophical analysis and cultural context. The works and thinkers studied vary from semester to semester. See the class schedule for the current semester's theme.

PHIL 295 Directed Study in Philosophy

(1, 2, 3)

1, 2, or 3 hours lecture

Prerequisite: Enrollment subject to project approval**Transfer acceptability:** CSU; UC – Credit determined by UC upon review of course syllabus.

An individualized or group project in philosophy of any nature approved by, and under the personal supervision of, the instructor.

Photography (PHOT)**See also Journalism**

Contact the Media Studies Department for further information.

(760) 744-1150, ext. 2440

Office: P-31

For transfer information, consult a Palomar College Counselor.

Associate in Science Degrees -

AS Degree requirements are listed in Section 6 (green pages).

- Digital Imaging

Associate in Arts Degrees -

AA Degree requirements are listed in Section 6 (green pages).

- Photography

Certificates of Achievement -

Certificate of Achievement requirements are listed in Section 6 (green pages).

- Digital Imaging
- Photography

Certificates of Proficiency -

Certificate of Proficiency requirements are listed in Section 6 (green pages).

- Alternative Process Photography
- Fine Art Traditional Photography

PROGRAMS OF STUDY**Alternative Process Photography**

This certificate is designed to provide an avenue for those students interested in pursuing a career as a photographer. The course work will address a range of technical issues, personal expression, aesthetics, criticism, portfolio development and history.

CERTIFICATE OF PROFICIENCY

Program Requirements		Units
PHOT 100	Elementary Film and Darkroom Photography or	3
PHOT 124	Introduction to Film and Darkroom for Digital Photographers	3
PHOT 213	Carbon Printing	3
PHOT 214	Photogravure	3
PHOT 215	Creative Photography	3
PHOT 216	Alternative Photographic Processes	3
TOTAL UNITS		15

Digital Imaging

Prepares students for entry-level position as creator and processor of digital imagery. Layout and creative position in multimedia, internet publishing, digital video, publishing, photography, and motion graphics.

Digital imaging is one of the basic requirements for all electronic communication delivery systems.

**A.S. DEGREE MAJOR OR
CERTIFICATE OF ACHIEVEMENT**

Program Requirements		Units
GCIP 122	Painter I	3
GCIP 140	Digital Imaging/Photoshop I	3
GCIP 141	Digital Imaging/Photoshop II	3
GCIP 240	Digital Imaging/Photoshop III	3
GCMW 120	Designing for the Social Web	3
GCMW 203	Web Multimedia	3
GCMW 204	Motion Graphics for Multimedia	3
GCMW 205	Digital Video for Multimedia	3
PHOT 100	Elementary Film and Darkroom Photography	3
PHOT 130	Digital Darkroom I	3
TOTAL UNITS		30

Digital Imaging A.S. Degree Major or Certificate of Achievement is also listed under Graphic Communications - Imaging and Publishing.

Fine Art Traditional Photography

This certificate is designed to provide an avenue for those students interested in pursuing a career as a fine art photographer. The course work will address a range of technical issues, personal expression, aesthetics, criticism, portfolio development, and history. See course description for specific topics and prerequisites.

CERTIFICATE OF PROFICIENCY

Program Requirements		Units
PHOT 100	Elementary Film and Darkroom Photography or	3
PHOT 124	Introduction to Film and Darkroom for Digital Photographers	3
PHOT 105	Intermediate Black and White Photography	3
PHOT 210	Advanced Black and White Photography	3

Eletives (Select 2 courses)

PHOT 170	The Photography and Photographers of California	3
PHOT 212	Landscape Photography	3
PHOT 213	Carbon Printing	3
PHOT 214	Photogravure	3
PHOT 215	Creative Photography	3
PHOT 216	Alternative Photographic Processes	3
ART 104	Design and Composition	3

TOTAL UNITS **15**

Photography

The Photography Program offers students the opportunity to study photography from beginning to advanced levels. Our courses prepare students in a variety of areas, including fine art, editorial, and commercial photography. The program stresses development of creativity while offering a firm grounding in basic skills. Our students will be prepared for positions in the job market or transfer to a 4 year college to continue their education. Students can earn an Associate in Arts Degree or a Certificate of Achievement in Photography.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements

		Units
PHOT 120	Digital Photography	3
PHOT 100	Elementary Film and Darkroom Photography	3
	or	
PHOT 124	Introduction to Film and Darkroom for Digital Photographers	3
PHOT 125	History and Criticism of Photography	3
PHOT 130	Digital Darkroom I	3
PHOT/JOUR 140	Photojournalism	3
PHOT 160	Photography: Professional Practices	3
PHOT 209	Photographic Portfolio	3
PHOT 220	Commercial Photography	3
PHOT 225	Photographic Portraiture	3

Eletives (Select a minimum of 6 units)

PHOT 105	Intermediate Black and White Photography	3
PHOT 135	Digital Darkroom II	3
PHOT 136	Digital Darkroom: Black and White	3
PHOT 145	Advanced Photojournalism	3
PHOT 170	The Photography and Photographers of California	3
PHOT 171	Landscape and Culture	3
PHOT 197A	Photography Topics: Field Studies	1 - 3
	or	
PHOT 197B	Photography Topics: Technical Studies	1 - 3
	or	
PHOT 197C	Photography Topics: General	1 - 3
PHOT 210	Advanced Black and White Photography	3
PHOT 212	Landscape Photography	3
PHOT 213	Carbon Printing	2
PHOT 214	Photogravure	3
PHOT 215	Creative Photography	3
PHOT 216	Alternative Photographic Processes	3
PHOT 296	Special Projects	1 - 3

TOTAL UNITS 33

COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

PHOT 50 Digital Camera (3)

3 hours lecture

Principles and use of digital cameras for beginners. Understand how your digital camera works and what the menu selections mean. Learn to download image files to your computer, make basic editing changes and how to share your images via web, email and slide presentations. The aesthetics and technology of digital photography will be discussed in lecture and critique sessions of student assignments.

PHOT 100 Elementary Film and Darkroom Photography (3)

1½ hours lecture - 4½ hours laboratory

Transfer acceptability: CSU; UC

Introduction to the mechanics, optics, chemistry, lighting principles, and practices of elementary photography using film. Explores the history, aesthetics, and the conceptualization of photographic imagery. Includes darkroom procedures in developing, printing, and finishing black and white photographic materials.

PHOT 105 Intermediate Black and White Photography (3)

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of 'C' in PHOT 100 or PHOT 124

Transfer acceptability: CSU; UC

Continues the study of the art and techniques associated with black and white photography. Problems relating to small and medium format camera systems and optics will be identified and compared. Further refinement in darkroom procedures and aesthetics will be explored.

PHOT 120 Digital Photography (3)

1½ hours lecture - 4½ hours laboratory

Transfer acceptability: CSU

Introduction to theory, mechanics, optics, lighting principles, and practices of photography using Digital Cameras. Explores the history, aesthetics, and the conceptualization of photographic imagery. Photographic seeing is stressed. Includes practices and procedures for image capture, asset management, software developing, printing, finishing and presentation and critique. Students are required to have an adjustable digital camera with manual exposure and RAW format capabilities.

PHOT 124 Introduction to Film and Darkroom for Digital Photographers (3)

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of 'C' in PHOT 120

Transfer acceptability: CSU; UC (pending)

Introduces digital photographers to analog film and darkroom methods. Includes film camera mechanics and operations, chemistry, film development, darkroom principles and practices of elementary black and white film photography. Contemporary and historical photographic imagery will be viewed and discussed. Encourages the development of personal artistic expression and visual perception through various photographic assignments. The aesthetics of photography and the conceptualization of photographic imagery will also be addressed. Many types of film cameras will be acceptable for this class. A film camera is required and your instructor will describe appropriate cameras the first day of class.

PHOT 125 History and Criticism of Photography (3)

3 hours lecture

Transfer acceptability: CSU; UC – PHOT 125 and 170 combined: maximum credit, one course

A survey of the history of photography from its invention to modern times and its development as an art and communication medium. Examines important photographers, their lives and works, in order to establish a critical understanding of photography and its place in our culture.

PHOT 130 Digital Darkroom I (3)

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of 'C' in PHOT 120

Transfer acceptability: CSU

The technology of digital photography, the computer, and inkjet printers. Emphasis on industry standard image editing software as the primary photographic processing and manipulation tools. Continuing instruction in digital image processing directed toward photographic output. Development of capabilities and use of the digital darkroom.

PHOT 135 Digital Darkroom II (3)

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of 'C' in PHOT 130

Transfer acceptability: CSU

A continuing investigation into the technology, theory and aesthetics of digital photography with instruction on advanced digital image processing from a photographic perspective. Emphasis will be on; creating outstanding imagery, perfecting output through the advance use of image editing software, and advancing visual literacy.

PHOT 136 Digital Darkroom: Black & White (3)

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of 'C' in PHOT 130

Transfer acceptability: CSU

Advanced concepts and techniques for "seeing" in black and white, and creating digital black and white photographs. Produce high-quality fine art prints.

PHOT 140 Photojournalism (3)

1½ hours lecture - 4½ hours laboratory

Note: Cross listed as JOUR 140

Recommended Preparation: PHOT 120

Transfer acceptability: CSU

C-ID JOUR 160

A study of the history and practice of photojournalism, providing specific application through photographing for The Telescope, Palomar College's newspaper. Student must provide own camera.

PHOT 145 Advanced Photojournalism (3)

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of 'C' in PHOT/JOUR 140**Transfer acceptability:** CSU

Designed to further develop those skills learned in PHOT 140. Provides advanced-level staffing for the college newspaper, magazine, and website. Emphasizes the use of multimedia productions, such as slide shows and DSLR video.

PHOT 160 Photography: Professional Practices (3)

3 hours lecture

Transfer acceptability: CSU

Prepares students for success in the photography world. Instruction and tactics on creating an operational plan, necessary paperwork, ethical issues, copywriting your photographs, working with clients and building the client base, pricing, invoicing, insurance and marketing. Appropriate for Commercial and Fine Art Photographers.

PHOT 170 The Photography and Photographers of California (3)

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of 'C' in PHOT 100 or PHOT 120**Transfer acceptability:** CSU; UC – PHOT 125 and 170 combined: maximum credit, one course

A survey and comparison of past and present California photographers and their work. An analysis of their philosophies and practices as it applies to the execution of photography as both an art and communication medium. There are numerous visitations with established photographers and galleries. Usually will require one trip of several days outside of the local area.

PHOT 171 Landscape and Culture (3)

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of 'C' in PHOT 120**Transfer acceptability:** CSU (pending)

A photographic exploration of the interaction, influences and impact connecting humans, nature and the landscape.

PHOT 197A Photography Topics: Field Studies (.5 - 4)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

Transfer acceptability: CSU

Topics in Photography, Field Studies. See Class Schedule for specific topic offered. Course title will designate subject covered.

PHOT 197B Photography Topics: Technical Studies (.5 - 4)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

Transfer acceptability: CSU

Topics in Photography, Technical Studies. See Class Schedule for specific topic offered. Course title will designate subject covered.

PHOT 197C Photography Topics: General (.5 - 4)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

Transfer acceptability: CSU

Topics in Photography, General. See Class Schedule for specific topic offered. Course title will designate subject covered.

PHOT 209 Photographic Portfolio (3)

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of 'C' in PHOT 105 or PHOT 130**Transfer acceptability:** CSU

Methods of portfolio design and production, goal setting, market research, resumes, artist statements, cover and inquiry letters and self-promotion for a range of career, scholastic and artistic purposes. Students will be required to employ their developing visual literacy, analytical skills and subjective thought. Field trips and classroom visits by working professionals will be incorporated.

PHOT 210 Advanced Black and White Photography (3)

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of 'C' in PHOT 105**Transfer acceptability:** CSU; UC

An exploration of the creative and technical possibilities of the View Camera through various assignments aimed at developing a personal style and approach to the production of quality black and white photography. A study of the relationship between film exposure and development and its application in the "zone system" is stressed.

PHOT 212 Landscape Photography (3)

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of 'C' in PHOT 100 or PHOT 120**Transfer acceptability:** CSU

A survey and comparison of past and present landscape photography. An analysis of different philosophies and approaches as it applies to different locations. Usually will require one trip of several days outside of the local area.

PHOT 213 Carbon Printing (3)

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of 'C' in PHOT 100 or PHOT 124**Transfer acceptability:** CSU

An exploration of the 19th century carbon photographic process. Students make large negatives from which they produce high-quality hand-made carbon transfer prints.

PHOT 214 Photogravure (3)

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of 'C' in PHOT 100 or PHOT 124**Transfer acceptability:** CSU

An introduction to the aesthetics and creation of photogravure intaglio-printed imagery. Historical and contemporary methods will be covered. Non-toxic methods will be stressed. Topics will include digital image preparation, polymer plates, safety, ink, paper, printing and press techniques, presentation, and critique.

PHOT 215 Creative Photography (3)

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of 'C' in PHOT 100**Transfer acceptability:** CSU; UC

Exploration of photography as an art form using both conventional and non conventional silver and non silver processes to permit broad variations and approaches to photographic expression.

PHOT 216 Alternative Photographic Processes (3)

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of 'C' in PHOT 105, or concurrent enrollment in PHOT 105**Transfer acceptability:** CSU

A practical, hands-on survey of historical alternatives and contemporary variations to the modern standard photographic process. Silver, Ferric, Dichromate, and Photomechanical possibilities for self expression will be explored. Typical processes learned will include Van Dyke, Cyanotype, Platinum and Palladium Kallitype, Bromoil, and gum printing.

PHOT 220 Commercial Photography (3)

1½ hours lecture - 4½ hours laboratory

Prerequisite: A minimum grade of 'C' in PHOT 130**Transfer acceptability:** CSU

Considerations of professional technical fundamentals in lighting, camera systems, digital workflow and management as applied in studio and location photography for commercial, advertising, and promotional purposes.

PHOT 225 Photographic Portraiture (3)
 1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in PHOT 130
Transfer acceptability: CSU
 Techniques and styles of photographic portraiture. Studio and non studio applications will be explored using black and white and color films or digital capture. Emphasis on lighting equipment and techniques.

PHOT 296 Special Projects (1, 2, 3)
 3, 6, or 9 hours laboratory
Prerequisite: A minimum grade of 'C' in PHOT 105
Transfer acceptability: CSU
 Requires demonstrated proficiency in photography and the creative ability and initiative to work independently on a particular sustained project which does not fit in the context of regularly scheduled classes. Could include portfolio preparation.

Physical Education

See Kinesiology

Physical Science (PHSC)

Contact the Physics and Engineering Department for further information.
 (760) 744-1150, ext. 2505
 Office: NS-355B

COURSE OFFERINGS

PHSC 100 Introduction to Physical Science (3)
 3 hours lecture
Transfer acceptability: CSU; UC – No credit for students with prior lecture credit in ASTR, CHEM, GEOL or PHYS
 The study of selected topics from the fields of astronomy, geology, physics, chemistry, and their related sciences through lectures, films, and demonstrations. A general education course designed particularly for non science majors. For teacher training see PHSC 101.

PHSC 100L Introduction to Physical Science Laboratory (1)
 3 hours laboratory
Prerequisite: A minimum grade of 'C' in PHSC 100, or concurrent enrollment in PHSC 100
Transfer acceptability: CSU; UC – No credit for students with prior lab credit in ASTR, CHEM, GEOL or PHYS
 The study of selected topics from the fields of astronomy, geology, physics, chemistry, and their related sciences through lab exercises. A general education course designed particularly for non-science majors. For teacher training see PHSC 101L.

PHSC 101 Principles of Physical Science (3)
 3 hours lecture
Transfer acceptability: CSU
 The study of selected topics from the fields of physics and chemistry and their related sciences through lectures, films, and demonstrations. A general education course designed particularly for non science majors. Especially recommended for teacher training.

PHSC 101L Principles of Physical Science Laboratory (1)
 3 hours laboratory
Prerequisite: A minimum grade of 'C' in PHSC 101, or concurrent enrollment in PHSC 101
Transfer acceptability: CSU
 The study of selected topics from the fields of physics and chemistry and their related sciences through lab exercises. A general education course designed particularly for non-science majors; not open to majors in physics, chemistry, or engineering. Especially recommended for teacher training.

Physics (PHYS)

Contact the Physics and Engineering Department for further information.
 (760) 744-1150, ext. 2505
 Office: NS-355B

COURSE OFFERINGS

*UC credit limitations --
 • No credit for PHYS 101 or 102 if taken after 120, 200, or 230
 • PHYS 120, 121 or 200, 201 or 230, 231, 232 combined: maximum credit, one series
 • PHYS 200 and 230 combined: maximum credit, one course
 • PHYS 201 and 231 combined: maximum credit, one course

PHYS 101 Introduction to Physics (4)
 3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in MATH 50 or one year of high school Algebra
Note: Not open to students with prior credit in PHYS 100, 110, 115, 120, 125, 230, 231, and 232
Transfer acceptability: CSU; UC*
 An introductory survey course in classical and modern physics. Not intended for science majors.

PHYS 102 Introduction to Physics (Lecture) (3)
 3 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 50 or one year of high school Algebra
Note: Not open to students with prior credit in PHYS 101, 110, 115, 120, 125, 230, 231, and 232
Transfer acceptability: CSU; UC*
 An introductory survey course in classical and modern physics. Not intended for science majors.

PHYS 120 General Physics (4)
 3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in MATH 110
Recommended preparation: MATH 115
Transfer acceptability: CSU; UC*
 C-ID PHYS 105; C-ID PHYS 100S for PHYS 120 and 121 combined
 The fundamental principles of classical mechanics, wave motion, sound, thermodynamics, and fluids.

PHYS 121 General Physics (4)
 3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of 'C' in PHYS 120
Transfer acceptability: CSU; UC*
 C-ID PHYS 110; C-ID PHYS 100S for PHYS 120 and 121 combined
 A second semester continuation of PHYS 120. The fundamental principles of optics, electricity, magnetism, and modern physics.

PHYS 130 Preparation for Principles of Physics (3)
 3 hours lecture
Prerequisite: A minimum grade of 'C' in MATH 140, or concurrent enrollment in MATH 140
Transfer acceptability: CSU
 Provides the applied mathematics and problem solving/presentation skills necessary for success in an introductory physics sequence for physics and engineering majors. Students will learn how to analytically solve physics problems and properly prepare laboratory reports. Reinforcement of math concepts will be emphasized throughout.