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.
Note: May be taken 4 times
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.
Note: May be taken 3 times
Transfer acceptability: CSU
Topics in Photography, General. See Class Schedule for specific topic offered. Course title will designate subject covered.

PHOT 201 Elementary Color Negative Printing (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in PHOT 105
Transfer acceptability: CSU
An introduction to the techniques and aesthetics of color negative printing. History, materials, processes, and vision will be explored.

PHOT 202 Intermediate Color Printing (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in PHOT 201
Transfer acceptability: CSU
A continuation of PHOT 201 with an emphasis on refined color printing skills. Color theory, image content, and printing excellence as well as contemporary issues will be stressed.

PHOT 209 Photographic Portfolio (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in PHOT 105 or PHOT 155
Note: May be taken 3 times
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 150
Note: May be taken 4 times
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 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 105
Transfer acceptability: CSU
Considerations of professional technical fundamentals in lighting, film, camera systems, 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 105
Transfer acceptability: CSU
Techniques and styles of photographic portraiture. Studio and non studio applications will be explored using black and white and color films. Emphasis on lighting equipment and techniques.

PHOT 230 Digital Darkroom I (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in GCIP 140 and PHOT 100, or PHOT 150
Note: May be taken 2 times
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 235 Digital Darkroom II (3)
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in PHOT 230
Note: May be taken 2 times
Transfer acceptability: CSU
This course is 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, advancing visual literacy.

PHOT 296 Special Projects (1, 2, 3)
3, 6, or 9 hours laboratory
Prerequisite: A minimum grade of 'C' in PHOT 105
Note: May be taken 3 times
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 (PE)
See Kinesiology

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

To satisfy a prerequisite, the student must have earned a letter grade of A, B, C or CR in the prerequisite course, unless otherwise stated. See Catalog addendum at http://www.palomar.edu/catalog/2011/ for updates and new program approvals.
### PHYS 101  Introduction to Physics (4)

- **Prerequisite:** A minimum grade of "C" in MATH 50, or one year of high school Algebra.
- **Transfer acceptability:** CSU; UC
- Not open to students with prior credit in PHYS 101, 110, 115, 120, 125, 230, 231, and 232.

An introductory survey course in classical and modern physics. Not intended for science majors.

**Transfer acceptability:** CSU; UC

### PHYS 120  General Physics (4)

- **Prerequisite:** A minimum grade of "C" in MATH 110
- **Recommended preparation:** MATH 115
- **Transfer acceptability:** CSU; UC

The fundamental principles of classical mechanics, wave motion, sound, thermodynamics, and fluids.

**Transfer acceptability:** CSU; UC

### PHYS 121  General Physics (4)

- **Prerequisite:** A minimum grade of "C" in PHYS 120
- **Transfer acceptability:** CSU; UC

A second semester continuation of PHYS 120. The fundamental principles of optics, electricity, magnetism, and modern physics.

**Transfer acceptability:** CSU; UC

### PHYS 200  Fundamentals of Physics (5)

- **Prerequisite:** A minimum grade of "C" in MATH 140, or concurrent enrollment in MATH 140
- **Recommended preparation:** MATH 141
- **Transfer acceptability:** CSU; UC

A calculus-based course in classical mechanics, waves, sound, fluids and thermodynamics, with an emphasis on life science, pre-professional, and architectural fields.

**Transfer acceptability:** CSU; UC

### PHYS 201  Fundamentals of Physics (5)

- **Prerequisite:** A minimum grade of "C" in PHYS 200
- **Recommended preparation:** MATH 141, or concurrent enrollment in MATH 141

A calculus-based course in classical mechanics, waves, sound, fluids and thermodynamics, with an emphasis on life science, pre-professional, and architectural fields.

**Transfer acceptability:** CSU; UC

### PHYS 230  Principles of Physics (5)

- **Prerequisite:** A minimum grade of "C" in MATH 205, or concurrent enrollment in MATH 205
- **Transfer acceptability:** CSU; UC

A second semester continuation of PHYS 120. The fundamental principles of optics, electricity, magnetism, and modern physics.

**Transfer acceptability:** CSU; UC