
USC Independent Health Professions



Physical therapy students work closely with Dr. Robert Landel to practice techniques used in the management of patients with musculoskeletal disorders.

The USC Departments of Biokinesiology and Physical Therapy, Nursing and Occupational Science and Occupational Therapy are administered independently by the Office of the Vice President for Health Affairs. Each of these departments offers outstanding health professional education at either the graduate or undergraduate levels.

The Department of Biokinesiology and Physical Therapy was established in 1944. For those wishing to enter the profession, the department offers the Doctor of Physical Therapy degree. For persons who are already practicing physical therapists, the department offers a Master of Science program. In addition, the department offers the nation's oldest Ph.D. degree program in Physical Therapy, now a Ph.D. in Biokinesiology. Experienced clinicians with a master's degree in physical therapy may be eligible to apply for the Doctoral of Physical Therapy in an Advanced Standing program. The department is headquartered on the Health Sciences Campus; all degree programs are offered through the Graduate School.

The goal of the Department of Nursing is to produce leaders for the nursing community of Southern California. Based on this philosophy, the curriculum is combined with research and leadership skills designed to prepare graduates to work effectively in a complex health care delivery system. The Department of Nursing was established in 1981. However, USC has been preparing leaders in nursing since 1945. In this early combination program with California Hospital, students who graduated from USC with a bachelor's degree in nursing were some of the first in the nation to earn that level of degree. Today, the department offers both the Bachelor of Science in Nursing and the Master of Science in Nursing degrees. Innovative arrangements are available for RNs seeking a bachelor's or master's degree in nursing. Post-master's degree certificates for nurses seeking leadership opportunities in specialty areas are yet other options.

The Department of Occupational Science and Occupational Therapy opened in 1942 and is headquartered on the Health Sciences Campus; more than 50 percent of the recipients of the highest academic awards given by the American Occupational Therapy Association have been USC alumni. The department's highly regarded Bachelor of Science degree program is offered through the College of Letters, Arts and Sciences. The department offers two degrees in conjunction with the Graduate School: the nation's oldest degree programs leading to the Master of Arts for registered occupational therapists or for persons with degrees in related fields and the world's first Ph.D. in Occupational Science.

Biokinesiology and Physical Therapy

**Health Sciences Campus
Center for the Health Professions**
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Faculty

Interim Chair: Sandra Howell, Ph.D., P.T.

Associate Professors: Lucinda L. Baker, Ph.D., P.T.; Nina S. Bradley, Ph.D., P.T.; Sandra Howell, Ph.D., P.T.; Carolee J. Winstein, Ph.D., P.T.; Robert Wiswell, Ph.D.

Assistant Professors: Cesar E. Blanco, Ph.D.; S. Victoria Jaque, Ph.D.; Kim O'Connor, Ph.D., P.T.; Christopher Powers, Ph.D., P.T.; George J. Salem, Ph.D.; Jack E. Turman, Jr., Ph.D., P.T.

Associate Professors of Clinical Physical Therapy: Kornelia Kulig, Ph.D.; Robert F. Landel, D.P.T.

Assistant Professors of Clinical Physical Therapy: Cindy Bailey, M.S., P.T.; Kyle Baldwin, D.P.T.; Jody Cormack, D.P.T.; Sharon DeMuth, D.P.T.; Teresa England, B.S., P.T.; Donna Gerber, M.S., P.T.; Michael O'Donnell, D.P.T.; Cheryl Resnik, D.P.T.

Instructors of Clinical Physical Therapy: Tina Alva, M.P.T.; Wendy Burke, B.S., P.T.; Jacquelyn Dylla, M.P.T.; Alisa Eischen, M.P.T.; Gretchen Hernandez, M.P.T.; Dianne Jones, M.Ed., P.T.; Sherri Ann Kang, M.S., P.T.; Reiko Kurihara, M.P.T.; Julie O. Reynolds, B.S., P.T.; Jennifer Riess, M.P.T.; Jeffrey Rodriguez, M.P.T.; Kristin Rottner, M.S., P.T.; Chris Sebelski, D.P.T.; Jena Van Loo, M.P.T.; Samuel Ward, B.S., P.T.; Teresa Wong, M.S., P.T.

Adjunct Associate Professor: Rizkalla Zakhary, Ph.D.

Adjunct Associate Professor of Research Physical Therapy: Daniel Antonelli, Ph.D.

Adjunct Assistant Professors of Clinical Physical Therapy: James Dagostino, D.P.T.; Beth Fisher, M.S., P.T.; Michael Fortanasce, D.P.T.; Paul D. Gaspar, D.P.T.; Joanne K. Gronley, D.P.T.; James Harrison, D.P.T.; Larry Ho, D.P.T.; Sally Ho, D.P.T.; Mary Hudson-McKinney, D.P.T.; Carlos A. Lavayen, D.P.T.; Stephen Reischl, D.P.T.; Elizabeth Souza, D.P.T.; Gary Souza, D.P.T.; Katherine Sullivan, M.S., P.T.; Joy S. Yakura, D.P.T.

Adjunct Instructors of Clinical Physical Therapy: Janet Konecne, M.P.T.; Arlene Wang, M.S., P.T.; Walt Weiss, M.P.T.

Clinical Professors: Donald McNeal, Ph.D.; Maureen G. Rodgers, M.A., P.T.

Clinical Associate Professors: Vincent M. Fortanasce, M.D.; Leonard Matheson, Ph.D.; Richard A. Shubin, M.D.; Terry T. Tanaka, D.D.S.

Clinical Assistant Professors: Raymond Blessey, J.D.; John R. Brault, M.S.; Kathy Bullock, M.S., P.T.; Jack D. Close, M.A., P.T.; Carol Dobashi, B.S., P.T.; Thomas M. Eggleton, M.S., P.T.; Eileen Fowler, Ph.D., P.T.; Margret Jane Hjalmanson, M.S., P.T.; Patricia A. Hokama, M.S., P.T.; D. Keith Kleven, M.S., P.T.; Dennis P. Langton, B.S., P.T.; Rebecca Lewthwaite, Ph.D.; Margaret Locke, M.S., P.T.; Linda K. Matsuno, M.S., P.T.; John H. Monlux, M.A., P.T.; Harold Nelson, M.S., P.T.; Thomas T. Payne, M.S., P.T.; David V. Powers, M.B.A., P.T.; Edward Pulwer, M.S.; Scott Ruther, M.S., P.T.; Morris Sasaki, B.S., P.T.; Michael Skurja, M.S., P.T.; Willes W. Sonnefield, M.A., P.T.; Beverly Toyama, B.S., P.T.; Kathryn Ann Voltz, M.P.T., P.T.; Marilyn Washington, B.S., P.T.; Joseph Yarmolovich, B.S., P.T.

Clinical Instructors: Edward Ayub, M.S., P.T.; Lauren M. Beeler, B.S., P.T.; Doramarie Doles, B.S., P.T.; Leslie K. Freedle, M.S., P.T.; Suzanne R. Freeman, M.P.T.; Carla Jo Griffith, B.S., P.T.; Kaye Harmston, B.S., P.T.; William A. Hartley, B.A., P.T.; David T. Hayes, B.S., P.T.; Sara Hirshy, B.S., P.T.; David C. Honda, B.A., P.T.; Diana Bayard Ignatius, B.S., P.T.; Frances P. Jewesson, B.S., P.T.; Sandra J.R. Larsen, B.S., P.T.; Larry Nakamura, B.A., P.T.; Linda B. Pichaj, M.P.T.; Bernadina Wilcox, M.S., P.T.

Emeritus Professor: Jacquelin Perry, M.D.

Emeritus Associate Professor: Lenore M. Krusell, M.A., P.T.

Programs

The Department of Biokinesiology and Physical Therapy offers curricula leading to the master's degree and two doctoral degrees. The entry-level professional program is for graduate students in majors other than physical therapy and leads to a Doctor of Physical Therapy degree. For physical therapy clinicians who wish to earn the D.P.T. degree there is an advanced standing program; credits from the M.S. in physical therapy or the M.P.T. may become the basis for advanced standing. The graduate curricula for the Master of Science and Doctor of Philosophy degrees are for persons who already are physical therapists; admission to the M.S. and Ph.D. programs also is open to scientists who are not physical therapists.

Master of Science

Graduate study for the Master of Science in Biokinesiology is open to individuals who have a bachelor's degree and who have a strong interest in movement sciences.

Admission Requirements

Admission requirements include a superior grade point average in cumulative undergraduate and graduate course work (if applicable). Applicants should score at least 600 in each area of the Graduate Record Examinations. Applicants are to provide the department with three letters of recommendation. The faculty may request a personal interview before making a decision on admission. Admission will be considered for fall, spring or summer terms but sequences of courses make fall the preferred starting time. Deadline for application is four months prior to the proposed starting date. All applicants should contact the Department of Biokinesiology and Physical Therapy for advisement.

Prerequisites

The prerequisite for applicants to the Master of Science program in biokinesiology is either: (a) a bachelor's degree or higher with a science major or equivalent; or (b) a bachelor's or master's degree in physical therapy with appropriate basic science content. Courses completed at the time of application must include work (with appropriate laboratory study) in chemistry, mathematics, physics and biology. Highly recommended is course work in anatomy, physiology, calculus, histology, kinesiology, trigonometry, analytical geometry, exercise physiology and biochemistry. Applicants with no background in cellular or molecular biology may be required to take PT 509 in the entry-level D.P.T. program. Candidates should have some degree of computer literacy. International applicants will be considered on a special evaluation of credentials.

Students deficient in certain prerequisites may be admitted subject to completion of requirements within two years after admission. An additional year may be granted upon review of the student's program by a faculty committee. Work in any prerequisite subjects will not be part of the required units for the Master of Science.

Degree Requirements

Completion of the degree requires satisfactory completion of a minimum of 32 credits of course work at the 500 level or above, a research paper (BKN 559 and 590), and a comprehensive examination administered with the chair of the Biokinesiology Committee acting as the examination advisor.



Dr. Kornelia Kulig conducts research in orthopedic and sports biomechanics and teaches the physical therapy course "Analytical Anatomy."

REQUIRED COURSES		UNITS
BKN 559	Readings in Biokinesiology	4
BKN 590	Directed Research	1-12
PM 510L	Biometry Principles	4

In addition, students must take at least 12 units of work from the following lists of courses. Student must take at least one course from each of the three domains before sitting for their comprehensive examination. Substituting a course for one of the courses below may be allowed after receiving approval from the Biokinesiology Committee prior to the beginning of the course.

CARDIOPULMONARY/EXERCISE SCIENCE		
BKN 587ab	Physiological Correlates of Therapeutic Exercise	4-4
PHBI 581	Cellular and Molecular Mechanisms in Physiology	4
PHBI 582	Endocrinology, Reproduction, and Metabolism	4
PHBI 583	Cardiovascular, Respiratory, and Renal Physiology	4

NEUROBIOLOGY		
BKN 565	Neurophysiology of Motion	4
BKN 593	Behavioral Basis of Motor Control and Learning	3
BISC 524	Advanced Neurosciences I	4
BISC 525	Advanced Neurosciences II	4

MUSCULOSKELETAL/BIOMECHANICS		
BKN 563	Biomechanics	2
BKN 564	Muscle Physiology	2
BKN 580aL	Analytical Kinesiology	3
BKN 667	Scientific Basis of Skeletal Adaptation	3

In order to fulfill the research paper requirement, students must do the following:

1. Select a research professor (from the department) whose work interests them.
2. After receiving the professor's approval, sign up for BKN 559 (4 units) and complete a semester reading the literature pertinent to the professor's work.
3. The following semester, sign up for BKN 590 (4 units) and participate in an ongoing research project which is being conducted by the professor. The research paper must be completed within the semester for which BKN 590 units are being given.

Departmental offerings for the M.S. are included in the M.S./Ph.D. course listing. Course work outside the department is encouraged.

Doctor of Physical Therapy

Post-Professional Advanced Standing Program

The department has a limited program of advanced standing for qualified physical therapy clinicians who wish to earn the D.P.T. Applicants should hold a master's degree in physical therapy or a related health science field and demonstrate high academic achievement in prior studies. The degree requirement includes successful completion of 36 units as described in the following three sections:

REQUIRED COURSES

COURSE	DESCRIPTION	UNITS
PT 573	Physical Examination and Differential Diagnosis in Patients with Medical Disorders	2
PT 585	Physical Examination and Differential Diagnosis in Patients with Neurological Disorders	2
PT 591	Physical Examination and Differential Diagnosis in Patients with Orthopedic Disorders	2
PT 605	Orthopedic Radiology	2
PT 607	Clinical Scanning	2
PT 608	Pharmacotherapeutics	2

ELECTIVES (ONE COURSE REQUIRED FROM EACH CATEGORY)

COURSE	DESCRIPTION	UNITS
<i>Anatomy</i>		
BKN 580	Analytical Kinesiology	3
PT 514L	Musculoskeletal Anatomy	4
PT 534	Neuroanatomy	3
PT 554	Analytical Anatomy	3
<i>Movement</i>		
BKN 553	Gait Analysis, Observational	3
BKN 565	Neurophysiology of Motion	4
BKN 593	Behavioral Basis of Motor Control and Learning	3
BKN 610	Movement: From Molecules to Behavior	3
<i>Physiology</i>		
BKN 587ab	Physiological Correlates of Therapeutic Exercise	4-4
PT 509	Cellular and Systems Physiology	3
PT 549	Clinical Exercise Physiology	4

Pathology

BKN 564	Muscle Physiology	2
BKN 667	Scientific Basis of Skeletal Adaptation	3
PT 516	Principles of Disease	2
PT 546	Neuropathology	3

Capstone Project

This required project is an innovative case study approved by the program coordinator.

A clinical residency is also available as part of the post-professional D.P.T. program.

Certificate in Orthopedic Physical Therapy

The program is directed at practicing clinicians who seek post-professional clinical residency education in orthopedic physical therapy and wish to obtain an academic credential for its completion.

Admission Requirements, Prerequisites and Degree Requirements

Admission requirements such as the undergraduate and professional grade point average, GRE scores, TOEFL scores, licensure in California and supporting letters of reference are the same as those for the post-professional D.P.T. In addition to the above listed requirements, experience in orthopedic physical therapy as evidenced by the years in practice and post-graduate course work taken will be assessed in the applicant's portfolio. The faculty may request a personal interview. Admission will be considered for fall semester only. Deadline for application is four months prior to the proposed starting date. All applicants should contact the Department of Biokinesiology and Physical Therapy for advisement. Completion of the certificate requires satisfactory completion of a minimum of 15 units.

REQUIRED COURSES

COURSE	DESCRIPTION	UNITS
PT 595abcd	Residency in Advanced Clinical Physical Therapy	1-4 each
PT 622L	Advanced Management of Spinal Disorders	3
PT 623	Advanced Management of Extremity Disorders	3

Professional Entry-Level Program

This program, for persons who are not physical therapists, comprises six semesters and two summers for completion of the required 117-121 units. All courses are in sequence and only in rare circumstances is the sequence altered.

Admission Requirements (Entry-Level)

Applicants are required to complete a baccalaureate degree (a minimum of four years or 120 semester hours of academic work) at an accredited college or university prior to matriculation. Prerequisite course work must include: four courses in the biological sciences (including human anatomy, human physiology and either cell or molecular biology); one year of college physics; one year of college chemistry; one semester of college mathematics; two courses in psychology; one course in composition and writing; and one course in either literature or history. Human anatomy, human physiology, physics and chemistry must include laboratories. The following courses are highly recommended: biochemistry, calculus, kinesiology, exercise physiology, neuroscience, genetics and a cross-cultural course in sociology. Applicants should be computer literate.

Students from foreign countries must have completed one year of study in the United States prior to application. Credits from foreign institutions must be approved by the USC Office of International Admissions.

Graduate Record Examinations (GRE)

The GRE is required of all applicants. In general, minimum scores of 500 are required on each of the general test measures of verbal, quantitative and analytical ability.

Applications

Applications are available in September for the class entering in September of the following year. The deadline for receipt of applications is December 1 of each year. Only one class is admitted each year.

The Admissions Committee reviews all information submitted. Applicants may be requested to appear for a personal interview. It is highly recommended that all applicants make an appointment to visit the department's office located on the Health Sciences Campus and talk with students and members of the faculty.

Notice of Acceptance

Notice of acceptance will be sent to successful candidates no earlier than late January and continually thereafter until the class is filled. In no case will an acceptance be offered earlier than one year before anticipated enrollment.

Candidates should reply to an offer of acceptance within three weeks enclosing a \$350 deposit (nonrefundable) which is credited to tuition at the time of registration. A letter of withdrawal is required if applicants wish to relinquish their place in the class; release is granted automatically upon receipt of the letter.

Degree Requirements (Entry-Level)

The USC Graduate School awards the D.P.T. to enrolled students who have completed satisfactorily the three-year curriculum of 117-121 credits (depending on electives chosen). The minimum number of credits required for graduation is 117. The minimum GPA required for graduation is 2.75. Clinical experience (clerkship) is part of the curriculum during all three years.

The Department of Biokinesiology and Physical Therapy uses a system of student evaluation and grading that is designed to encourage self-reliance, to stimulate the student's independent quest for knowledge and to promote excellence in clinical and academic achievement.

Faculty of the program are responsible for establishing evaluation criteria appropriate to the objectives of each course and for specifying the manner in which evaluative information is to be gathered. For clinical evaluation, descriptive comments based on the student's performance are submitted by faculty and clinical instructors to the student's permanent file.

REQUIRED COURSES	UNITS
PT 507 Professional Behavior	2
PT 509 Cellular and Systems Physiology	3
PT 514L Musculoskeletal Anatomy	4
PT 516 Principles of Disease	2
PT 521L Basics of Patient Management	4
PT 529 Life Span Motor Control	3
PT 534L Neuroanatomy	3
PT 536 Pathology of Cardiopulmonary Disease and General Medical Conditions	3
PT 539 Clinical Pharmacology	1
PT 546 Neuropathology	3
PT 547 Health Care in the United States	2
PT 549L Clinical Exercise Physiology	4

PT 551L Therapeutic Application of Physical Agents	2
PT 554L Analytical Anatomy	3
PT 557 Provision of Physical Therapy Services	2
PT 566 Disorders of the Musculoskeletal System	3
PT 569 Fundamentals of Neuroscience	4
PT 571L Clinical Management of Cardiopulmonary Dysfunction	5
PT 574 Clinical Biomechanics	3
PT 577 Critical Evaluation of Research	4
PT 581L Clinical Management of the Patient with Neurological Dysfunction	5
PT 582 Mechanics of Human Gait	2
PT 583L Clinical Electrophysiology	3
PT 600abcdz Clinical Clerkship	1-1-1-1-0
PT 606 Clinical Imaging	3
PT 621L Clinical Management of the Patient with Musculoskeletal Dysfunction	5
PT 626 Management of Geriatric Conditions, or	
PT 627 Management of the Pediatric Patient	3
PT 636ab Grand Rounds	1-1
PT 642ab Clinical Judgment Seminar	2-2
PT 646L Pathokinesiology of Gait	3
PT 681 Physical Therapy Management of the Orthopedic Outpatient	3
PT 682 Physical Therapy Management of the Orthopedic Inpatient	5
PT 691 Physical Therapy Management of the Neurologic Outpatient	3
PT 692 Physical Therapy Management of the Neurologic Inpatient	5
PT 693 Physical Therapy Management of the General Medicine Inpatient	5

Doctoral research is also available as an elective.

Third Year Clinical Experience

The last year of the three-year program will largely be devoted to clinical assignments in out-patient and in-patient facilities. This continuum of clinical rotations will be designed for each individual student.

REQUIRED CLINICAL ROTATIONS ARE:

PT 681 Physical Therapy Management of the Orthopedic Outpatient	3
PT 682 Physical Therapy Management of the Orthopedic Inpatient	5
PT 691 Physical Therapy Management of the Neurologic Outpatient	3
PT 692 Physical Therapy Management of the Neurologic Inpatient	5
PT 693 Physical Therapy Management of the General Medicine Inpatient	5

REQUIRED COURSES ARE:

PT 626 Management of Geriatric Conditions, or	
PT 627 Management of the Pediatric Patient	3
PT 636ab Grand Rounds	1-1
PT 646L Pathokinesiology of Gait	3

ELECTIVE COURSES*

ELECTIVE COURSES*	UNITS
PT 612L Physical Therapy Management of Spinal Disorders	2
PT 613L Physical Therapy Management of the Foot and Lower Quarter	2
PT 614L Evaluation and Management of Hand Dysfunction	2
PT 615 Management of the Complicated Patient	2
PT 618L Seminar in Advanced Neurological Rehabilitation	2
PT 619L Clinical Electrophysiology	2

*Students must take one elective in the third year, but may opt to take 1-2 additional electives.

Doctor of Philosophy

The graduate program leading to the Doctor of Philosophy in Biokinesiology is designed to prepare candidates for research and teaching at the university level. Actual programs of study will be designed with a degree of flexibility directed toward individual students who seek to become independent scholars.

Admission Requirements

Applicants must meet all general admission requirements of the university. Admission requirements include a superior grade point average in cumulative undergraduate and graduate course work (if applicable). In addition, applicants should score at least 600 in each area of the Graduate Record Examinations (GRE) and have some research experience. Students admitted for the Master of Science degree are not automatically admitted to the Doctor of Philosophy program. The Master of Science is not required as a prerequisite to the Ph.D. but may be advised.

Applicants must have a personal interview with the program faculty. A student can be considered for admission only when a member of the full-time Ph.D. faculty has agreed to serve as the student's Ph.D. advisor. Three letters of recommendation and duplicate transcripts must be sent to the department for preliminary evaluation, although final acceptance is based upon the official USC application procedure.

Prerequisites (Ph.D. Program)

The prerequisite for applicants to the Ph.D. program in biokinesiology is either: (a) a bachelor's degree or higher with a science major or equivalent; or (b) a bachelor's or master's degree in physical therapy with appropriate basic science content. Courses completed at the time of application must include work (with appropriate laboratory study) in chemistry, mathematics, physics and biology. Highly recommended is course work in anatomy, physiology, histology, cell biology, exercise physiology, kinesiology, biochemistry, trigonometry, analytical geometry and calculus.

Candidates should be computer literate. International applicants will be considered on a special evaluation of credentials.

Students deficient in certain prerequisites may be admitted subject to completion of requirements within two years after admission. An additional year may be granted upon

review of the student's program by a faculty committee. Work in any prerequisite subject will not be part of the required 60 units for the Doctor of Philosophy.

Screening Examination

A screening examination will be offered twice each year for qualified students. It must be taken prior to the completion of 24 units at the 500 level or higher. The examination will be written and comprehensive, covering topics in biokinesiology related to the student's course work. The examination will be prepared, administered and evaluated by the research faculty of the department and faculty in related departments of cognate study. Passing this examination is a prerequisite for continuation in the Ph.D. program.

Course Requirements

A minimum of 60 units is required for the Doctor of Philosophy degree.

REQUIRED COURSE WORK		UNITS
BKN 610	Movement: From Molecules to Behavior	3
BKN 656a	Recent Advances in Biokinesiology	2
BKN 672	Advanced Independent Study in Biokinesiology	4
BKN 790	Research	1-12
BKN 794abcdz	Doctoral Dissertation	2-2-2-2-0

Ph.D. students must take BKN 610 and at least one course from each domain below before sitting for their Ph.D. screening examination. Substituting a course for one of the courses below may be allowed after receiving approval from the Biokinesiology Committee prior to the beginning of the course.

CARDIOPULMONARY/EXERCISE SCIENCE		UNITS
BKN 564	Muscle Physiology	2
BKN 587ab	Physiological Correlates of Therapeutic Exercise	4-4
PHBI 581	Cellular and Molecular Mechanisms in Physiology	4
PHBI 582	Endocrinology, Reproduction, and Metabolism	4
PHBI 583	Cardiovascular, Respiratory, and Renal Physiology	4

NEUROBIOLOGY		UNITS
BKN 565	Neurophysiology of Motion	4
BKN 566	Neurobiology of Locomotion	4
BKN 593	Behavioral Basis of Motor Control and Learning	3
BKN 600	Neurobiology of Mastication	2
BISC 524	Advanced Neurosciences I	4
BISC 525	Advanced Neurosciences II	4

MUSCULOSKELETAL/BIOMECHANICS		UNITS
BKN 563	Biomechanics	2
BKN 580aL	Analytical Kinesiology	3
BKN 667	Scientific Basis of Skeletal Adaptation	3

Other course requirements (to complete 60 units) will vary according to the specific needs of each student. Course work other than departmental offerings is encouraged and may be required by the student's guidance committee.

COURSES AVAILABLE FOR M.S./PH.D. STUDENTS		UNITS
BKN 553	Gait Analysis, Observational	2
BKN 559	Readings in Pathokinesiology	1-4, max 8
BKN 563	Biomechanics	2
BKN 564	Muscle Physiology	2
BKN 565	Neurophysiology of Motion	4
BKN 566	Neurobiology of Locomotion	4
BKN 568ab	Objective Measurement of Physical Performance	3-3
BKN 573ab	Advanced Dissection Anatomy	2-2
BKN 576	Seminar	1, max 2
BKN 580abL	Analytical Kinesiology	3-3
BKN 587ab	Physiological Correlates of Therapeutic Exercise	4-4
BKN 590	Directed Research	1-12
BKN 593	Behavioral Basis of Motor Control and Learning	3
BKN 594abz	Master's Thesis	2-2-0
BKN 599	Special Topics	2-4, max 8
BKN 600	Neurobiology of Mastication	2
BKN 610	Movement: From Molecules to Behavior	3
BKN 653	Gait Analysis, Instrumented	4

BKN 656ab	Recent Advances in Biokinesiology	2-2
BKN 672	Advanced Independent Study in Biokinesiology	1-4, max 8
BKN 790	Research	1-12
BKN 794abcdz	Doctoral Dissertation	2-2-2-2-0
PT 570	Technology in Teaching and Use of Multimedia	1-5
PT 595abcd	Residency in Advanced Clinical Physical Therapy	3-3-3-3

Foreign Language Requirement

There is no foreign language requirement; instead, a biometry sequence is required (PM 510L, PM 511abL) plus additional research methods or computer science courses (PM 513 or BME 523 or equivalent).

Guidance Committee

Upon successful completion of the screening examination the student and the major advisor will select a guidance committee for continuing course work and independent study. The guidance committee comprises

five members; three full-time Ph.D. faculty from the Department of Biokinesiology and Physical Therapy, one of whom serves as the committee chair, and two faculty members outside the department.

The guidance committee will recommend course work, independent study and readings in the major and cognate areas.

Qualifying Examination

The Ph.D. qualifying examination is offered during the fall or spring semester. The student will present his or her guidance committee with a dissertation proposal in the National Institutes of Health (NIH) format. Subsequently, the committee will administer a written examination that covers a topic closely related to the student's dissertation proposal. The student will then participate in an oral examination administered by the graduate committee. The oral examination will include a defense of the proposal and material from the written examination and related topics. A student failing any part of the examination may be allowed one additional opportunity to pass that portion at the discretion of the guidance committee, within the regulations of the USC Graduate School governing the repetition of qualifying examinations.

Dissertation Committee

After the qualifying examination has been passed and a dissertation topic approved, the guidance committee shall be known as the dissertation committee and may be reduced to three members upon unanimous recommendation to the dean of graduate studies. One of the three members must be from outside the major department. The dissertation and the defense or final oral must have the unanimous approval of the dissertation committee.

Dissertation and Oral Defense

An acceptable dissertation based on original investigation is required. The dissertation must show technical mastery of a special field, capacity for independent research and scholarly ability.

The chair of the dissertation committee will be the principal research advisor. The dissertation should be completed within two years of the date of approval of the proposal.

Courses of Instruction

BIOKINESIOLOGY (BKN)

The terms indicated are *expected* but are not *guaranteed*. For the courses offered during any given term, consult the *Schedule of Classes*.

553 Gait Analysis, Observational (2, 2 years, Fa) Sequential segmental analysis of the major body segments. Emphasis on the specific gait deviations related to neurological and musculoskeletal pathology. Lecture and laboratory.

559 Readings in Biokinesiology (1-4, max 8, FaSpSm) Independent review and synthesis of papers appearing in the current literature.

561 Independent Study in Electrophysiologic Measurement (4, Irregular) Methods of assessing muscle and nerve integrity with nerve conduction velocity and electromyographic techniques. *Prerequisite:* BKN 580abL, BKN 564.

563 Biomechanics (2, 2 years, Sp) Advanced study of the kinematics of human motion. Emphasis on the inverse dynamics solution to qualify forces and moments of force. Lecture and demonstration. *Prerequisite:* BKN 580aL.

564 Muscle Physiology (2, 2 years, Sp) Considerations of muscle structure and function in health and disease. *Prerequisite:* PT 509 or BISC 524 or INTD 531.

565 Neurophysiology of Motion (4, Sp) Survey of peripheral and central nervous systems with emphasis on neuronal signals, motor and sensory integration, vestibular and proprioceptive mechanisms, facilitation and inhibition.

566 Neurobiology of Locomotion (4) Topics include developmental biology of embryonic motility, central pattern generators, descending neural regulation, sensory modulation, and perception/action influences on the motor control of locomotion. *Prerequisite:* BISC 524, BISC 525.

568ab Objective Measurement of Physical Performance (a: 3, Sp; b: 3, Irregular)
a: Instrumentation for clinical evaluation; to include measures of force, work, gait, motion, and kinesiological electromyography; elements of biophysics; and introduction to electronics.
b: Instrumentation for clinical evaluation of cardiovascular, energy consumption, and respiratory system performance.

573ab Advanced Dissection Anatomy (2-2, FaSpSm) Advanced analysis of systems or structures with dissection. Emphasis on correlations with function.

576 Seminar (1, max 2, FaSp) Advanced topics related to the science of physical therapy. Graded CR/NC.

580abL Analytical Kinesiology (3-3, FaSp)
a: Mechanical characteristics of the musculoskeletal system which determine quality of human motion, leverage, alignment, torque, mobility, force relationships. Lecture and laboratory. *b:* Pathokinesiology analysis of one select anatomical area. Independent study, on demand.

587ab Physiological Correlates of Therapeutic Exercise (4-4, FaSp) *a*: Responses of the physically handicapped to exercise. Emphasis on muscle, energy metabolism, body temperature, environment, endocrine considerations. Strengthening, training, endurance, and evaluation of performance. *b*: Responses of the physically handicapped to exercise, with emphasis on cardiovascular and respiratory adaptations and pathology.

590 Directed Research (1-12, FaSpSm) Research leading to the master's degree. Maximum units which may be applied to the degree to be determined by the department. Graded CR/NC.

593 Behavioral Basis of Motor Control and Learning (3, Sp) Seminar in movement science dealing with the behavioral basis of motor control and learning from an information processing perspective. *Recommended preparation*: statistics; psychology.

594abz Master's Thesis (2-2-0) Credit on acceptance of thesis. Graded IP/CR/NC.

599 Special Topics (2-4, max 8, FaSpSm) Studies of scientific theory in physical therapy.

600 Neurobiology of Mastication (2) Overview of the cellular and molecular mechanisms underlying the circuitry responsible for the production of mastication. *Prerequisite*: BISC 524.

610 Movement: From Molecules to Behavior (3, Fa) Survey of contemporary issues pertaining to the cellular and behavioral basis of movement. (Duplicates credit in former PT 610.)

653 Gait Analysis, Instrumented (4, Sp) Measurement and correlation of foot switch, force plate, electrogoniometry, photography, and kinesiological EMG data in normal and pathological gait. *Prerequisite*: BKN 553 and BKN 568a.

656ab Recent Advances in Biokinesiology (2-2, FaSpSm) Newer techniques in biokinesiology research.

667 Scientific Basis of Skeletal Adaptation (3, Irregular) Physiological and structural adaptation of bone and joint tissues associated with development, aging, movement and loading. Lecture.

672 Advanced Independent Study in Biokinesiology (1-4, max 8, FaSpSm) Examination of selected mechanisms underlying normal movement and pathological movement. Doctoral students only.

790 Research (1-12, FaSpSm) Research leading to the doctorate. Maximum units which may be applied to the degree to be determined by the department. Graded CR/NC.

794abcdz Doctoral Dissertation (2-2-2-2-0, FaSpSm) Credit on acceptance of dissertation. Graded IP/CR/NC.

PHYSICAL THERAPY (PT)

507 Professional Behavior (2, Fa) Interpersonal relationships and behavior between professional and patient; interdisciplinary attitudes; human life styles, cultures and beliefs. Seminar.

509 Cellular and Systems Physiology (3, Fa) Selected subjects in cellular and systems physiology. Emphasis on molecular and cellular aspects of neuromuscular function; also hepatic; renal and endocrine physiology.

514L Musculoskeletal Anatomy (4, Fa) Musculoskeletal anatomy, innervation, blood supply, and function: intensive study of the head, neck, trunk, and limbs. Lecture, dissection laboratory.

516 Principles of Disease (2, Fa) Principles and mechanisms of genetics, immunology, infection, wound healing, and oncology. Lecture.

521L Basics of Patient Management (4, Fa) Development of basic decision-making skills, professional behaviors and impairment assessment in patients with musculoskeletal neurologic and/or cardiopulmonary dysfunction. Lecture, laboratory.

529 Life Span Motor Control (3, Fa) Introduction to sensorimotor systems, overview of current perspectives in motor control from fetus through late adulthood, and clinical tests of motor proficiency. Lecture, limited laboratory.

534L Neuroanatomy (3, Sm) Organized approach to structures in the brain, spinal cord and peripheral nervous systems that subserve motor, sensory, and integrative functions, memory, cognitive and special senses. Lecture, laboratory.

536 Pathology of Cardiopulmonary Disease and General Medical Conditions (3, Fa) Pathology and pathophysiological mechanisms in disease of the cardiac, pulmonary and circulatory systems; examination of diabetes, burns, and other disabling medical disorders. Lecture.

539 Clinical Pharmacology (1, Fa) Effects of commonly used drugs in patients with physical disability; side effects that alter physical performance or responses to exercise.

546 Neuropathology (3, Sp) Pathology in the central and peripheral nervous systems that alter motor and sensory performance. Emphasis on loss of motion, excessive and involuntary movement disorders. Lecture. *Prerequisite*: PT 516, PT 534L.

547 Health Care in the United States (2, Fa) Overview of the basic structures and factors in the U.S. health care system. The focus is on the changing nature of the relationships and the impact on the delivery of physical therapy services. Lecture, seminar.

549L Clinical Exercise Physiology (4, Fa) Adaptation of the human body to exercise and the use of exercise to modify human function. Lecture and laboratory.

551L Therapeutic Application of Physical Agents (2, Sp) Physiologic responses to the application of thermal, mechanical, electromagnetic and hydrodynamic therapeutic procedures. Evaluation procedures and intervention planning. Lecture, laboratory. *Prerequisite*: PT 521L.

554L Analytical Anatomy (3, Sp) Detailed kinesiological analysis of axial, spine, head, neck, face and bulbar muscles. Lecture, laboratory and clinical demonstration. *Prerequisite*: PT 514L.

557 Provision of Physical Therapy Services (2, Sm) Administration, personnel supervision, budgeting, physical plant and reimbursement for physical therapy services. Lecture, projects.

566 Disorders of the Musculoskeletal System (3, Sp) Regional description of pathology and pathophysiological mechanisms of disorders of bone, connective tissue, and joints. Lecture, demonstration.

569 Fundamentals of Neuroscience (4, Sp) Detailed analysis of neurophysiologic mechanisms underlying normal and abnormal motor and sensory function. Lecture. *Prerequisite*: PT 509, PT 516, PT 529, PT 534L.

570 Technology in Teaching and Use of Multimedia (1-5, Irregular) Development of teaching units and their evaluation. Experience in preparation of instructional media using state-of-the-art technology. Hours and credit to be arranged. Lecture, demonstration and directed experience. (Duplicates credit in former BKN 570.)

571L Clinical Management of Cardiopulmonary Dysfunction (5, Fa) Physical therapy evaluation and intervention in the care of patients with circulatory, cardiac, or pulmonary dysfunction. Lecture, case presentations, laboratory. *Prerequisite*: PT 521L.

573 Physical Examination and Differential Diagnosis in Patients with Medical Disorders (2, Fa) Physical assessment and differential diagnosis in common medical conditions. Emphasis on factors that influence physical therapy or require referral back to the physician.

574 Clinical Biomechanics (3, Fa) Introduction to the principles of biomechanics (statics, dynamics) as they apply to physical therapy practice. Emphasis on tissue mechanics, joint function and gait. Lecture. *Prerequisite:* PT 554L.

577 Critical Evaluation of Research (4, Sm) Critical examination of scientific and professional literature. Statistical methods appropriate to clinical research. Lecture, seminar.

581L Clinical Management of the Patient with Neurological Dysfunction (5, Fa) Physical therapy theory and methods for intervention in neurological dysfunction. Lecture, laboratory. Neuroanatomy lab available. *Prerequisite:* PT 509, PT 516, PT 521L, PT 529, PT 534L.

582 Mechanics of Human Gait (2, Sp) Introduction to both normal and pathological gait. Emphasis on the basic components of abnormal ambulation including temporal-spatial factors, joint motion, kinetics, kinematics, and muscle activity. Lecture.

583L Clinical Electrophysiology (3, Sp) Use of electrical currents to evaluate and treat musculoskeletal, neurological and wound disorders. Theory and practice. Lecture, laboratory. *Prerequisite:* PT 514L, PT 554L.

585 Physical Examination and Differential Diagnosis in Patients with Neurological Disorders (2, Fa) Physical examination and differential diagnosis in neurologic disorders. Emphasis on factors that influence physical therapy or require referral back to the physician.

591 Physical Examination and Differential Diagnosis in Patients with Orthopedic Disorders (2, Sp) Physical examination and differential diagnosis in orthopedic disorders. Emphasis on factors that influence physical therapy or require referral back to the physician.

595abcd Residency in Advanced Clinical Physical Therapy (1-4 each, FaSpSm) Residency open to students pursuing a Graduate Certificate in Orthopedic Physical Therapy or the post-professional D.P.T. program. Graded CR/NC. P.T. Licensure required.

600abcdz Clinical Clerkship (1-1-1-1-0, FaSpSm) Practical experience in two or six week physical therapy manual skills, decision making, and professional behaviors. Graded CR/NC. *Prerequisite:* b: PT 521L, PT 551L, PT 621L; d: PT 571L, PT 581L, PT 583L, PT 600b.

605 Orthopedic Radiology (2, Fa) Study of normal and pathologic skeletal radiographic examinations.

606 Clinical Imaging (3, Fa) Elements of reading roentgenographs, CAT and MRI scans for the physical therapist. Lecture, demonstration, practical experience.

607 Clinical Scanning (2, Sp) Survey of diagnostic imaging for orthopedic and neurologic disorders seen in physical therapy practice.

608 Pharmacotherapeutics (2, Fa) Indications, contraindications, physiologic mechanisms, and side-effects of pharmacologic agents. Analysis of interactions between drugs and physical therapy interventions.

612L Physical Therapy Management of Spinal Disorders (2, FaSpSm) Advanced evaluation and treatment skills for the management of individuals with spinal disorders. Lecture, laboratory. *Prerequisite:* PT 600d.

613L Physical Therapy Management of the Foot and Lower Quarter (2, Fa) Advanced evaluation and treatment skills for management of individuals with lower extremity disorders. Lecture, laboratory. *Prerequisite:* PT 600d.

614L Evaluation and Management of Hand Dysfunction (2, Sp) Pathology, evaluation, differential diagnosis and treatment of hand and wrist dysfunction. Lecture, laboratory. *Prerequisite:* PT 600d.

615 Management of the Complicated Patient (2, Sp) Physical therapy management of the patient with multiple medical diagnoses and complicating factors. Case study content focus. Lecture, discussion. *Prerequisite:* PT 600d.

618L Seminar in Advanced Neurological Rehabilitation (2, Sp) Advanced evaluation treatment, and problem solving skills for the individual with neurological dysfunction. Lecture, laboratory. *Prerequisite:* PT 600d.

619L Clinical Electrophysiology (2, Fa) Advanced evaluation and treatment of individuals with peripheral nerve disorders using electrotherapy. Lecture, laboratory. *Prerequisite:* PT 600d.

621L Clinical Management of the Patient with Musculoskeletal Dysfunction (5, Sp) Physical therapy theory and methods of evaluation and treatment of orthopedic dysfunction. Lecture, demonstration, laboratory. Dissection lab available. *Prerequisite:* PT 514L, PT 521L.

622 Advanced Management of Spinal Disorders (3, FaSpSm) Theoretical and practical foundations in orthopedic rehabilitation of spinal disorders with emphasis on differential diagnosis from systemic manifestation. Lecture, laboratory, and case presentations. Open to licensed physical therapists only.

623 Advanced Management of Extremity Disorders (3, FaSpSm) Theoretical and practical foundations in orthopedic rehabilitation of occupational, recreational and athletic disorders of the extremities; emphasis on differential diagnosis from systemic manifestations. Lecture, laboratory, and case presentations. Open to licensed physical therapists only.

626 Management of Geriatric Conditions (3, FaSp) Physical therapy evaluation and management of conditions in aging with emphasis on bone mineralization, elasticity of soft tissues, the senile dementias and CNS degeneration. Seminar, clinical laboratory.

627 Management of the Pediatric Patient (3, FaSp) Physical therapy examination and management of pediatric patients from birth to 21 years of age focusing on the family-centered approach. Seminar, clinical laboratory. Open to third year D.P.T. students only.

636ab Grand Rounds (1-1, FaSp) Student case studies, oral presentations, and written patient outcome reports. *Prerequisite:* PT 600d.

642ab Clinical Judgment Seminar (2-2, FaSp) a: Development of cognitive and metacognitive skills to enhance critical thinking for patient management. *Prerequisite:* PT 521L, PT 621L, PT 600b. b: Focus on cognitive processes to effect optimal functional outcomes in patients.

646L Pathokinesiology of Gait (3, Fa) Organized approach to clinical diagnosis and management of normal and dysfunctional human locomotion. Techniques of observational and instrumented gait analysis. Lecture, video-interactive learning, laboratory. *Prerequisite:* PT 582.

681 Physical Therapy Management of the Orthopedic Outpatient (3, FaSpSm) Clinical internship in the outpatient orthopedic physical therapy setting. Tutorial. Graded CR/NC. (Duplicates credit in former 681a.) *Prerequisite:* PT 600d.

682 Physical Therapy Management of the Orthopedic Inpatient (5, FaSpSm)
Clinical internship in the acute inpatient orthopedic physical therapy setting. Tutorial. Graded CR/NC. (Duplicates credit in former PT 681b.) *Prerequisite:* PT 600d.

691 Physical Therapy Management of the Neurologic Outpatient (3, FaSpSm) Clinical internship in outpatient neurology physical therapy setting. Tutorial. Graded CR/NC. (Duplicates credit in former PT 691a.) *Prerequisite:* PT 600d.

693 Physical Therapy of the General Medicine Inpatient (5, FaSpSm) Clinical internship in inpatient ICU or general medicine physical therapy setting. Tutorial. Graded CR/NC. *Prerequisite:* PT 600d.

692 Physical Therapy Management of the Neurologic Inpatient (5) Clinical internship in acute inpatient neurologic physical therapy setting. Tutorial. Graded CR/NC. (Duplicates credit in former PT 691b.) *Prerequisite:* PT 600d.

Nursing

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Assistant Professors: Cecily Betz, Ph.D., R.N., F.A.A.N.; Christopher Coleman, Ph.D., R.N.; Michele Gold, Ph.D., C.R.N.A.; Patricia Riccio, Ph.D., R.N.; Mileva Saulo, Ed.D., R.N.; B. J. Snell, Ph.D., W.H.C.N.P., C.N.M.; Elizabeth Johnston Taylor, Ph.D., R.N.; Sharon Valente, Ph.D., A.N.P., F.A.A.N.*

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Lecturers: Vern Bullough, Ph.D., R.N.; Gale Friedman, M.S.N., R.N.; Ann S. Harmon, M.S.N., R.N.; Sarah Ingersoll, M.S.N., M.B.A., R.N.; Ivonne Jorif, M.S.N., R.N.; Edith Smith, M.S.N., R.N., C.N.M.; Beverly Vandercook, M.S.N., C.P.N.P.; Tracy Weintraub, M.S.N., R.N.

Adjunct: Josephine Alexander, M.N., R.N.; Melinda Beswick, M.S.N., R.N.; Christine Betzold, M.S.N., F.N.P.; Carol Bradley, M.S., R.N.; Lorain Brault, M.S.N., A.N.P.; Laurie Carpenter-Tveit, M.S.N., R.N.; Victoria Coon, C.R.N.A., M.S.; Ann Dechairo, M.S., R.N.; Zoe-Anne Fitzhugh, M.S.N., R.N.; Evonne Fowler, M.N., R.N.; Joan Fox, C.R.N.A., M.S.N.; Linda Gorman, M.N., R.N.; Dana Lynn Grogan, C.R.N.A., M.S.; Maureen Habel, M.S., R.N.; Elizabeth Harrison, M.S., R.N.; Robin Herman, M.N., R.N.; George Higgins, C.R.N.A., M.S.; Martha Highfield, Ph.D., R.N.; Pamela Honish, M.A., R.N.; Barbara Johnson, M.N., R.N.; Martha Kayne, M.N., R.N.; Sally Kilby, M.S., R.N.; Paula Suzanne Kuntz, M.S.N., R.N.; Lisa Leonard, M.N., R.N.; Cindy McClain, M.S., C.N.M.; J.O. Medina, M.S.N., R.N.; Ruth Mielke, M.S., C.N.M.; Ruth Mulnard, D.N.Sc., R.N.; Lourdes Najman, M.S., R.N.; Constance Nemece, M.S.N., R.N.; Karen Ringl, M.S.N., R.N.; Rebecca Ropchan, M.S.N., R.N.; Janice Roper, Ph.D., R.N.; Ellen Rosen, M.S., R.N.; Susan Scott, M.N., R.N.; Elinor S. Silverstein, M.S.N., F.N.P.; Ellen Sitton, M.S.N., R.N.; Katie Skelton, M.S.N., R.N.; Kathryn Ann

Smith, M.N., R.N.; Sharon Steingass, M.S.N., R.N.; Leann Strasen, D.P.A., R.N.; Glenna Traiger, M.S.N., R.N.; Angela Demman Treinen, M.N., R.N.; Gwen Uman, Ph.D., R.N.; Lynne Whaley, M.S.N., R.N.; Karen Wunch, M.S., R.N.

*Recipient of university-wide or school award.

Honor Society

Students in the Department of Nursing who demonstrate academic excellence have the opportunity to apply for membership in Iota Lamda Chapter of Sigma Theta Tau, the International Honor Society of Nursing.

Programs

The Department of Nursing offers a Bachelor of Science in Nursing degree (B.S.N.), a minor in Health and Social Ecology and a Master of Science in Nursing (M.S.N.) degree. At the master's level, students may specialize in: Family Nurse Practitioner, Enterostomal Therapy, Gerontology Nurse Practitioner, Nurse Anesthesia, Leadership and Administration or Nurse Midwifery. In addition, individuals with a master's degree in nursing may earn a specialty certificate.

Computer Skill Requirements

Course work for undergraduate and graduate students requires an ability to access the Internet and send and receive email. Computer accounts are provided by the university to all students and can be activated online (www.usc.edu/firstlogin). Access to computing facilities is available on both the University Park and on the Health Sciences Campus at the Norris Medical Library. USC also supports remote connections. Additional information about computing at USC is available online (www.usc.edu/isd) or by contacting the Information Service Division's Customer Support Center at (213) 740-5555.

Bachelor of Science in Nursing

Bachelor of Science in Nursing

The mission of the USC Department of Nursing is to educate and prepare nursing leaders for practice in a diverse and changing health care environment and to advance the profession and improve health care through research and scholarship. To fully realize this mission, the curriculum for the Bachelor of Science in Nursing combines clinical research and leadership skills to prepare graduates for roles in today's complex health care delivery system. The baccalaureate nursing program is a combination of nursing sciences, supporting sciences and general education. Freshmen admitted as declared nursing majors follow a planned sequence of prerequisite study for the first two years before entering the major as upper division juniors.

Bachelor of Science in Nursing for the Registered Nurse

The Bachelor of Science in Nursing for the Registered Nurse (B.S. for the R.N.) is a program that provides advanced placement for the registered nurse student.

Registered nurses who begin the nursing major as juniors take courses designed to meet their learning needs on a full- or part-time basis. The first course, NURS 302, is a professional "bridge" course structured to provide self-directed learning. Faculty and staff provide individual academic advisement and career counseling. Self-paced and self-directed learning experiences are available.

Registered nurses will be considered for admission if they are graduates of either a diploma or an associate degree program in nursing, hold licensure as a registered nurse in California and have 64 transferable units. Registered nurse applicants are eligible for the maximum number of transfer units allowed by the university. Transfer units may be used to meet the prerequisites, some of the general education requirements and the unit requirements for the degree. The nursing courses specific to the registered nurse degree requirements for the Bachelor of Science in Nursing must be taken at USC.

30-unit Option

Information is available through the Nursing Department's Student Affairs Office on a 30-unit option for Licensed Vocational Nurses which enables them to take the R.N. licensure examination. This option, which is required by the State of California Board of Registered Nursing, does not lead to a degree.

Multiple Entry Option Curriculum

For students who know that they want an M.S. Nursing degree at the time of registration, the Multiple Entry Option program provides a pathway to a Master of Science in Nursing degree. By eliminating duplication and organizing the course work, second degree students and Associate Degree in Nursing students can progress from a bachelor's degree to a Master of Science in Nursing degree. Detailed information is available from the department.

Challenge

As required by the California State Board of Registered Nursing, students may challenge undergraduate and graduate courses in the nursing curriculum. Students may not challenge any course for which they have enrolled at USC. Challenges must be done in sequence after consultation with an advisor. See section on Credit by Special Examination in this catalogue.

Admission Requirements

For entering freshmen, Scholastic Aptitude Test (SAT) scores are required. In addition to the regular USC freshman admission requirements, two years of high school science courses (including one year of chemistry with lab) must be completed.

The equivalent of USC freshman and sophomore course work must be completed prior to beginning the upper division sequence. This course work includes anatomy, physiology, chemistry, microbiology, statistics, social issues, psychology, life span development, two semesters of writing and six general education courses, a foreign language and a diversity course. All required science courses must include laboratory work. Transfer students should have a cumulative grade point average of 3.0 or higher in college work to be competitive. USC students who wish to change their major to nursing should have a cumulative GPA of 2.5.

No applicant will be denied admission on the basis of race, religion, creed or disability provided functional health is sufficient to meet professional demands.

Unit and Grade Point Average Requirements

A total of 130 units is required for the Bachelor of Science in Nursing degree. Included in this total are 56 units in non-major course work and 74 units of professional nursing preparation.

A grade point average of 2.0 (A = 4.0) is required to complete the program. A grade of C (2.0) or higher is required in all nursing courses. A grade of C or higher is also required in the physical and behavioral sciences support courses which are part of the baccalaureate curriculum plan. These courses are anatomy, physiology, microbiology, chemistry, psychology, social issues, statistics, and life-span development. In accordance with the Board of Registered Nursing requirements, nursing students have the option to challenge nursing courses for credit.

General Education Requirements

The university's general education program provides a coherent, integrated introduction to the breadth of knowledge you will need to consider yourself (and to be considered by other people) a generally well-educated person. This new program requires six courses in different categories, plus writing and diversity requirements, which are described in detail on pages 167 through 172.

All students who (1) entered the Department of Nursing as freshmen in the summer of 1997 or later; or (2) began college elsewhere in the summer of 1997 or later; or (3) began college earlier but transfer to USC in the summer of 2000 or later, must satisfy the requirements of the new general education program. Other students whose schedules permit are encouraged to follow the new program as well. However, continuing and transfer students who began college full-time before summer 1997 and enter USC before summer 2000 may elect to satisfy a "transitional" plan instead, which is outlined on page 172.

Bachelor of Science in Nursing Pre-Nursing Requirements

FIRST YEAR, FIRST SEMESTER		UNITS
CHEM 105aL	General Chemistry (GE Category III)	4
WRIT 140*	Writing and Critical Reasoning	4
General education*	Social Issues	4
General education		4
FIRST YEAR, SECOND SEMESTER		UNITS
BISC 312Lx	Human Anatomy	4
PSYC 100	Introduction to Psychology	4
NURS 308	Human Development: Health Issues Across the Life Span	4
General education		4

SECOND YEAR, FIRST SEMESTER		UNITS	FOURTH YEAR, FIRST SEMESTER		UNITS	NURSING COURSES AND ELECTIVES		UNITS
BISC 310Lx	Principles of Human Microbiology	4	NURS 324	Concepts for Practice II: Pathological, Nutritional and Pharmacologic Concepts	2	NURS 302	Nursing Science	3
NURS 202	Gateway to Health: Social Ecology Perspectives	4	NURS 402	Community and Home Health Nursing	3	NURS 309	Health Assessment	3
General education		4	NURS 406	Medical Surgical Nursing II	4	NURS 319L	Health Assessment Practicum	1
WRIT 340	Advanced Writing	4	NURS 412L	Community and Home Health Nursing Practicum	4	NURS 322	Foundation for Practice: Pathological, Nutritional and Pharmacologic Concepts, or	
SECOND YEAR, SECOND SEMESTER		UNITS	NURS 416L	Medical-Surgical Nursing II Practicum	4	NURS 323	Concepts for Practice I: Pathological, Nutritional and Pharmacologic Concepts	2
BISC 306Lx	Introductory Physiology	4	FOURTH YEAR, SECOND SEMESTER		UNITS	NURS 324	Concepts for Practice II: Pathological, Nutritional and Pharmacologic Concepts	2
PSYC 274	Statistics I, or		NURS 404	Advanced Medical-Surgical Nursing III	2	NURS 402	Community and Home Health Nursing	3
PPMT 404	Statistics in Public Policy and Management, or		NURS 405	Professional Ethics, Nursing Leadership Management	3	NURS 405	Professional Ethics, Nursing Leadership Management	3
SOCI 314	Sociological Statistics, or		NURS 414L	Advanced Medical-Surgical Practicum III	2	NURS 412L	Community and Home Health Nursing Practicum	4
HP 340L	Health Behavior Statistical Methods	4	NURS 415L	Nursing Leadership and Management Practicum	3	NURS 415L	Nursing Leadership and Management Practicum	3
General education		4	NURS 461	Nursing Research	3	NURS 461	Nursing Research	3
Foreign language		4	NURS 480L	Clinical Intensive	1	NURS 480L	Clinical Intensive	1
*Taken concurrently.			Nursing elective		2	Total nursing units: 28		
Total pre-nursing units: 56					16	Total units: 130		
Total nursing units: 8			Total upper-division nursing units: 66			Minor in Health: Social Ecology		
Nursing Major Requirements			Total units: 130			This minor presents many different views of health and health care as it examines health from an ecological viewpoint. It is designed both for the student who anticipates a future career in health care as well as the student who will not be directly involved in providing health care but wants to learn more about promotion of health and how the system that provides health care in the United States is managed (understanding from either a provider or a consumer viewpoint).		
The unifying theme of the baccalaureate level curriculum is that of transitions to help people reach and maintain an optimum stage of wellness.			Bachelor of Science in Nursing for the Registered Nurse			<i>Requirements for Admission to the Minor</i>		
THIRD YEAR, FIRST SEMESTER		UNITS	PREREQUISITES		UNITS	To be admitted to the minor program, students must meet the following criterion: 2.0 grade point average.		
NURS 304	Medical-Surgical Nursing I	4	PSYC 274	Statistics I, or		<i>Requirements for Completion</i>		
NURS 309	Health Assessment	3	PPMT 404	Statistics in Public Policy and Management, or		A total of 20 units is required for completion of the program. All students will take a four unit "Gateway" course (NURS 202) as an introduction to the minor. Following the gateway course, students will take an additional four courses. These 16 units must be upper division (300-or 400-level) courses.		
NURS 314L	Medical-Surgical Nursing Practicum I	4	SOCI 314	Sociological Statistics, or	4			
NURS 317L	Fundamental Clinical Nursing Skills	2	HP 340L	Health Behavior Statistical Methods				
NURS 319L	Health Assessment Practicum	1	GERO 320	Psychology of Adult Development, or				
NURS 322	Foundation for Practice: Pathological, Nutritional and Pharmacologic Concepts	2	PSYC 337L	Adult Development and Aging, or				
		16	NURS 308	Human Development: Health Issues Across the Life Span	4			
THIRD YEAR, SECOND SEMESTER		UNITS	General Education Requirements					
NURS 303	Nursing Care of Children and Families	3	All registered nurse students must meet university requirements for general education (see page 167).					
NURS 305	Psychiatric Nursing	2						
NURS 306	Nursing Care of Women and Newborn Infants	4						
NURS 313L	Nursing Care of Children and Families Practicum	2						
NURS 315L	Psychiatric Nursing Practicum	2						
NURS 316L	Nursing Care of Women and Newborn Infants Practicum	2						
NURS 323	Concepts for Practice I: Pathological, Nutritional and Pharmacologic Concepts	2						
		17						

ELECTIVE COURSES (CHOOSE 4)		UNITS						
BUAD 304	Organizational Behavior	4	HP 422	AIDS in Society	4	NURS 422	Spiritual Dimensions of Health Care	4
GERO 402	Housing for the Elderly: Policy, Programs and Design	2	HP 431	Behavior and Education Strategies for Nutrition and Fitness	4	OT 350	Disability, Occupations, and the Health Care System	4
GERO 416	Health Issues in Aging	4	NURS 308	Human Development: Health Issues Across the Life Span	4	OT 375	The Narrative Structure of Social Action: Narrative, Healing and Occupation	4
GERO 435	Women and Aging: Psychological, Social and Political Implications	4	NURS 325	Alternative Therapies in Health Care	4	PHAR 300	Self Care Managing: Non-Prescription Drug Products and Devices	2
GERO 437	Social and Psychological Aspects of Death and Dying	4	NURS 329	Diversity in Human Sexuality: the Roles of Ethnicity, Gender, and Culture	4	SOCI 369	The Family in a Changing Society	4
HP 400	Culture, Lifestyle, and Health	4	NURS 421	Understanding Diversity and Domestic Violence and Community Responses	4	SOCI 475	Medical Sociology	4
HP 412	Health Promotion and Preventive Policy	4						

Master of Science

Nursing curriculum at the master's level is designed to produce a graduate with the management and research ability to become a leader in a specialty field. The Master of Science program in nursing offers these specialty options: family nurse practitioner, gerontology nurse practitioner, nurse anesthetist, enterostomal therapy nurse, leadership and administration, nurse midwifery and a post master's certificate in all specialty options. A dual degree program combines nursing with business administration for the M.S./M.B.A. degree.

Admission Requirements

General requirements for admission to the Master of Science program in nursing include a minimum 3.0 undergraduate grade point average; acceptable scores on the verbal and quantitative sections of the Graduate Record Examinations; current licensure as a Registered Nurse; a bachelor's degree in nursing or a related field; submission of an essay describing the applicant's career goals; completion of an acceptable undergraduate statistics course; and three letters of reference. An interview may be required.

Challenge

As required by the California State Board of Registered Nursing, RNs may challenge undergraduate and graduate courses in the nursing curriculum. Students may not challenge any course for which they have enrolled at USC. See section on Credit by Special Examination in this catalogue.

Program Requirements

Graduate programs range from 38-54 unit courses of study which include nursing research, health care delivery systems, leadership for advanced practice nursing and integration of applicable theory throughout the curriculum. An advanced practicum residency, a series of courses in the specialty and a comprehensive examination are required. Graduates will be eligible for certification by the American Nurses Association, the American College of Nurse-Midwives, the Wound, Ostomy, Continence Nurse Society or the Association of Nurse Anesthetists.

Because of the continuous changes in health care that require constant updating of knowledge and skills, the notation that a course duplicates credit in another course does not imply that no further learning experiences will be required to meet course or degree requirements. Students must petition the department to determine whether previous course work will be applied or whether supplementary course work will be necessary.

A student holding a master's degree in nursing may apply for a specialty certificate in Nurse Midwifery, Enterostomal Therapy, Family Nurse Practitioner, Nurse Anesthesia, or Gerontology Nurse Practitioner.

Core Courses for All Graduate Programs

The unifying theme of the master's level curriculum is that of transitions to help people reach and maintain an optimum stage of wellness.

NURS 511	Health Care Delivery Systems	3
NURS 550	Research: Investigative Inquiry	4
NURS 551	Research Integration: Capstone Experience	1
NURS 562	Leadership for Advanced Practice	3

M.S., Nursing (Enterostomal Therapy)

Students completing this course of study are prepared to be Clinical Specialists in Enterostomal Therapy (ET) nursing with knowledge and skills to provide health care to clients and families experiencing wound, ostomy and/or continence care problems throughout the life cycle. The program is designed to provide the student with management and entrepreneurial skills to develop independent practice options. Students enrolling in the Enterostomal Therapy option must complete the M.S., nursing core courses, advanced courses in pharmacotherapeutics, health assessment, nursing economics, primary care and the enterostomal therapy nursing specialty courses. The program consists of 38 units. Students must have a B.S., Nursing degree or comparable course work and one year of recent nursing experience; an interview may be required. Upon successful completion of NURS 501, NURS 502 and NURS 512L (12 units), students become eligible to sit for the National Certification Examination in Enterostomal Therapy Nursing.

DEGREE REQUIREMENTS		UNITS						
<i>Core Courses</i>			NURS 565	Pharmacology for Advanced Practice Nursing	2	NURS 544L	Advanced Clinical Residency in Primary Care	4
NURS 511	Health Care Delivery Systems	3	NURS 571L	Advanced Practicum Residency	4	NURS 565	Pharmacology for Advanced Practice Nursing	2
NURS 550	Research: Investigative Inquiry	4			30			27
NURS 551	Research Integration: Capstone Experience	1	M.S., Nursing (Family Nurse Practitioner)					
NURS 562	Leadership for Advanced Practice	3	Students completing this course of study are prepared to be advanced primary care providers who possess the knowledge and skills to provide comprehensive health care with a holistic focus to multiethnic clients and families throughout the life cycle. Students enrolling in the Family Nurse Practitioner option must complete the M.S., Nursing core courses, advanced health assessment and pathophysiology, three sets of practicum and didactic classes and an advanced course in pharmacotherapeutics. The total program consists of 38 units and may be completed in three semesters of full-time study. A flexible pathway which provides for self-paced learning is available.					
						Total units: 38		
<i>Specialty Courses</i>			Post-Master's Degree Family Nurse Practitioner Certificate					
NURS 501	Introduction to Enterostomal Therapy Nursing	4	Students with a master's degree in nursing are eligible to apply for enrollment in the post-master's degree FNP program. This program prepares students for certification by the California Board of Registered Nursing and the American Nurses' Association as Family Nurse Practitioners. The program can be completed in three semesters of full-time study or on a part-time basis.					
NURS 502	Advanced Enterostomal Therapy Nursing	4	Admission requirements include, in addition to the master's degree in nursing, three letters of reference from professional colleagues and/or former graduate school faculty. Before enrolling in the first clinical course, students must have completed a physical assessment course and achieved a passing grade on a written clinical evaluation of physical assessment skills. Applicants for the Family Nurse Practitioner program must also have at least one year of experience as a registered nurse. The total requirement for completion of the program is 30 units of course work.					
NURS 512L	Enterostomal Therapy Practicum	4	<i>Clinical Preparation</i> Before enrolling in the first clinical course, students must have completed a course on health assessment and achieve a passing grade on a written and clinical evaluation of health assessment skills.					
NURS 514	Nursing and Health Care Economics	4	Applicants for the Family Nurse Practitioner program must have at least one year of experience as a registered nurse in addition to meeting all admission requirements for the M.S. program; an interview may be required.					
NURS 522	Intensive Health Assessment for Advanced Practice Nurses	2						
NURS 533	Primary Care of the Family II	3						
NURS 565	Pharmacology for Advanced Practice Nursing	2						
NURS 571L	Advanced Practicum Residency	4						
						Total units: 38		

Post-master's Degree Enterostomal Therapy Nursing Certificate

Students with a master's degree in nursing are eligible to apply for enrollment in the post-master's degree ET program. This program prepares students for certification by the Wound Ostomy Continence Nurse Society as enterostomal therapy nurses. This program can be completed in one semester.

REQUIRED COURSES		UNITS
NURS 501	Introduction to Enterostomal Therapy Nursing	4
NURS 502	Advanced Enterostomal Therapy Nursing	4
NURS 512L	Enterostomal Therapy Practicum	4
NURS 514	Nursing and Health Care Economics	4
NURS 522	Intensive Health Assessment for Advanced Practice Nurses	2
NURS 533	Primary Care of Family II	3
NURS 562	Leadership for Advanced Practice	3

DEGREE REQUIREMENTS		UNITS
<i>Core Courses</i>		
NURS 511	Health Care Delivery System	3
NURS 550	Research: Investigative Inquiry	4
NURS 551	Research Integration: Capstone Experience	1
NURS 562	Leadership for Advanced Practice	3
<i>Clinical Courses</i>		
NURS 521	Pathophysiology for Advanced Practice	2
NURS 522	Intensive Health Assessment for Advanced Practice Nurses	2
NURS 523	Primary Care of the Family I	3
NURS 524L	Practicum in Primary Care of the Family I	4
NURS 533	Primary Care of the Family II	3
NURS 534L	Practicum in Primary Care of the Family II	4
NURS 543	Seminar on Advanced Clinical Topics in Primary Care	3

REQUIRED COURSES		UNITS
NURS 521	Pathophysiology for Advanced Practice	2
NURS 522	Intensive Health Assessment for Advanced Practice Nurses	2
NURS 523	Primary Care of the Family I	3
NURS 524L	Practicum in Primary Care of the Family I	4
NURS 533	Primary Care of the Family II	3
NURS 534L	Practicum in Primary Care of the Family II	4
NURS 543	Seminar on Advanced Clinical Topics in Primary Care	3
NURS 544L	Advanced Clinical Residency in Primary Care	4
NURS 562	Leadership for Advanced Practice	3
NURS 565	Pharmacology for Advanced Practice Nursing	2
		30

M.S., Nursing (Nurse Midwifery)

Students completing this course of study are prepared for the rapidly expanding discipline of nurse midwifery. Students enrolling in the M.S., Nursing (Midwifery) emphasis must complete the core courses as well as specialty practicum and didactic classes in nurse midwifery. The total program consists of 38 units.

This program prepares students for certification by the American College of Nurse-Midwives.

In addition to the M.S. program admission requirements, applicants for the nurse midwifery emphasis must have one year's experience as a registered nurse with six months of experience in labor and delivery. A license to practice nursing in California and an interview are required.

DEGREE REQUIREMENTS		UNITS
<i>Core Courses</i>		
NURS 511	Health Care Delivery System	3
NURS 550	Research: Investigative Inquiry	4
NURS 551	Research Integration: Capstone Experience	1
NURS 562	Leadership for Advanced Practice	3
		<hr/> 11
<i>Clinical Courses</i>		
NURS 522	Intensive Health Assessment for Advanced Practice Nurses	2
NURS 565	Pharmacology for Advanced Practice Nursing	2
NURS 579	Basic Nurse Midwifery Assessment and Management	4
NURS 580	Intermediate Nurse Midwifery Assessment and Management	4
NURS 581	Primary Care in Nurse Midwifery	2
NURS 582	Internship in Primary Care for Nurse Midwives	1
NURS 583	Nurse Midwifery Assessment and Management of Well Woman Gynecology	3
NURS 585	Reproductive Physiology/Pathophysiology for Advanced Practice	2
NURS 586	Internship for Well Woman Gynecology	1
NURS 587	Internship in Basic Nurse Midwifery Practice	3
NURS 588	Internship in Intermediate Nurse Midwifery Practice	1

NURS 589	Internship in Advanced Nurse Midwifery Practice	2
		<hr/> 27

Total units: 38

Post-Master's Degree Nurse Midwifery Certificate

Students with a master's degree in nursing are eligible to apply for enrollment in the post-master's degree Nurse Midwifery program (N.M.W.). This program prepares students for certification by the American College of Nurse-Midwives. The total program consists of 30 units.

Applicants must have at least two years of recent experience as a registered nurse with six months of recent experience in labor and delivery or certification as a nurse practitioner. A license to practice nursing in California and an interview with the faculty are required. Applicants will be asked to submit three letters of reference from professional colleagues and/or former graduate school faculty.

REQUIRED COURSES		UNITS
NURS 522	Intensive Health Assessment for Advanced Practice Nurses	2
NURS 562	Leadership for Advanced Practice	3
NURS 565	Pharmacology for Advanced Practice Nursing	2
NURS 579	Basic Nurse Midwifery Assessment and Management	4
NURS 580	Intermediate Nurse Midwifery Assessment and Management	4
NURS 581	Primary Care in Nurse Midwifery	2
NURS 582	Internship in Primary Care for Nurse Midwives	1
NURS 583	Nurse Midwifery Assessment and Management of Well Woman Gynecology	3
NURS 585	Reproductive Physiology/Pathophysiology for Advanced Practice	2
NURS 586	Internship for Well Woman Gynecology	1
NURS 587	Internship in Basic Nurse Midwifery Practice	3
NURS 588	Internship in Intermediate Nurse Midwifery Practice	1
NURS 589	Internship in Advanced Nurse Midwifery Practice	2
		<hr/> 30

M.S., Nursing (Gerontology Nurse Practitioner)

Students completing this course of study are prepared to be advanced primary care providers who possess the knowledge and skills to provide comprehensive health care to multiethnic clients and families in the older age population. Students enrolling in the Gerontology Nurse Practitioner emphasis must complete the M.S., Nursing core courses, three sets of practicum and didactic classes, advanced courses in pharmacotherapeutics and advanced health assessment. The total program consists of 40 units and may be completed in four semesters of full-time study.

Clinical Preparation

Before enrolling in the first clinical course, students must have completed a course on health assessment and achieved a passing grade on a written and clinical evaluation of health assessment skills.

Students wishing to pursue the gerontology nurse practitioner option must meet all admission requirements for the M.S. program. Applicants for the Gerontology Nurse Practitioner program must also have at least one year of experience as a registered nurse.

DEGREE REQUIREMENTS		UNITS
<i>Core Courses</i>		
NURS 511	Health Care Delivery System	3
NURS 550	Research: Investigative Inquiry	4
NURS 551	Research Integration: Capstone Experience	1
NURS 562	Leadership for Advanced Practice	3
		<hr/> 11
<i>Specialty Courses</i>		
GERO 510	Physiology of Development and Aging, or Life Span Developmental Psychology	2
NURS 521	Pathophysiology for Advanced Practice	2
NURS 522	Intensive Health Assessment for Advanced Practice Nurses	2
NURS 525	Primary Care of Geriatric Clients I	3
NURS 526L	Practicum in Primary Care of Geriatric Clients I	4
NURS 543	Seminar on Advanced Clinical Topics in Primary Care	3
NURS 544L	Advanced Clinical Residency in Primary Care	4

NURS 548	Primary Care of Geriatric Clients II	3
NURS 549L	Practicum in Primary Care of Geriatric Clients II	4
NURS 565	Pharmacology for Advanced Practice Nursing	2
		29

Total units: 40

Post-Master's Degree Gerontology Nurse Practitioner Certificate

Students with a master's degree in nursing are eligible to apply for enrollment in the post-master's degree Gerontology Nurse Practitioner program. The total program consists of 32-34 units.

Applicants must have at least one year of recent experience as a registered nurse. A license to practice nursing in California is required as well as an interview with the faculty. Applicants will be asked to submit three letters of reference from professional colleagues and/or former graduate school faculty.

REQUIRED COURSES	UNITS	
GERO 510	Physiology of Development and Aging (4), or Life Span Developmental Psychology (2)	2-4
NURS 521	Pathophysiology for Advanced Practice	2
NURS 522	Intensive Health Assessment for Advanced Practice Nurses	2
NURS 525	Primary Care of Geriatric Clients I	3
NURS 526L	Practicum in Primary Care of Geriatric Clients I	4
NURS 543	Seminar on Advanced Clinical Topics in Primary Care	3
NURS 544L	Advanced Clinical Residency in Primary Care	4
NURS 548	Primary Care of Geriatric Clients II	3
NURS 549L	Practicum in Primary Care of Geriatric Clients II	4
NURS 562	Leadership for Advanced Practice	3
NURS 565	Pharmacology for Advanced Practice Nursing	2
		32-34

M.S., Nursing (Nurse Anesthesia)
 This course of study prepares qualified nurses in the specialty of nurse anesthesiology and qualifies the graduate to sit for the certification examination given by the Council on Certification of Nurse Anesthetists. The graduate attains a high level of clinical competence with an extensive body of didactic knowledge relevant to the specialty and advanced practice nursing. Students enrolling in the M.S., Nursing (Nurse Anesthesia) course of study must complete the M.S.N. core courses as well as specialty practicum and didactic classes. The program consists of 45-54 units and is completed in 24 months of continuous enrollment (six semesters).

In addition to the M.S., Nursing program admission requirements, applicants to the nurse anesthesia option must have completed appropriate undergraduate course work in physiology, chemistry, biochemistry and physics. A minimum of one year of experience in critical care nursing as a registered nurse is required. Licensure as an RN in California, current BCLS and ACLS certification are required prior to enrollment. All students enrolled in this option must be proficient with word processing and must own or have access to an IBM or compatible computer with modem for communication purposes and academic assignments. Conversational Spanish is strongly recommended. Applicants will be interviewed and must demonstrate an acceptable understanding of the roles and responsibilities of certified registered nurse anesthetists.

DEGREE REQUIREMENTS	UNITS	
<i>Core Courses</i>		
NURS 511	Health Care Delivery System	3
NURS 550	Research: Investigative Inquiry	4
NURS 551	Research Integration: Capstone Experience	1
NURS 562	Leadership for Advanced Practice	3
		11
<i>Specialty Courses</i>		
NURS 565	Pharmacology for Advanced Practice Nursing	2
NURS 572	Nurse Anesthesia I	4
NURS 573	Pharmacology of Anesthesia Practice	4
NURS 574	Pathophysiology Related to Anesthesia Practice	4
NURS 575L	Clinical Residency in Nurse Anesthesia I	4
NURS 576	Nurse Anesthesia II	5

NURS 577L	Advanced Clinical Residency in Nurse Anesthesia I	3-8
NURS 578L	Advanced Clinical Residency in Nurse Anesthesia II	4-8
PHBI 583	Cardiovascular, Respiratory, and Renal Physiology	4
		34-43

Total units: 45-54

Post Master's Degree Nurse Anesthesia Certificate

Students with a master's degree in nursing are eligible to apply for enrollment in the post-master's Nurse Anesthesia program. This program prepares students to sit for the certification given by the Council on Certification of Nurse Anesthetists. The total program consists of 37 units.

Applicants must have a minimum of one year of recent experience in critical care nursing as a registered nurse. A license to practice nursing in California, current BCLS and ACLS certification, and an interview with the faculty are required. Applicants will be expected to demonstrate an acceptable understanding of the roles and responsibilities of certified registered nurse anesthetists. Applicants will be asked to submit three letters of reference from professional colleagues and/or former graduate school faculty. All applicants must have completed appropriate undergraduate course work in physiology, chemistry, biochemistry, and physics. All students enrolled in this option must be proficient with work processing and must own or have access to an IBM or compatible computer with modem for communication purposes and academic assignments. Conversational Spanish is strongly recommended.

REQUIRED COURSES	UNITS	
NURS 562	Leadership for Advanced Practice	3
NURS 565	Pharmacology for Advanced Practice Nursing	2
NURS 572	Nurse Anesthesia I	4
NURS 573	Pharmacology of Anesthesia Practice	4
NURS 574	Pathophysiology Related to Anesthesia Practice	4
NURS 575L	Clinical Residency in Nurse Anesthesia I	4
NURS 576	Nurse Anesthesia II	5
NURS 577L	Advanced Clinical Residency in Nurse Anesthesia I	3-8

NURS 578L	Advanced Clinical Residency in Nurse Anesthesia II	4-8
PHBI 583	Cardiovascular, Respiratory, and Renal Physiology	4
		<u>37</u>

M.S., Nursing (Leadership and Administration)

The profound changes that have occurred in the financing and delivery of health care demand qualified nursing leaders to manage change and envision a future responsive to our society's health needs. The Leadership and Administration emphasis offers nursing leaders administrative theory and research directly applicable to the management of health care environments. Financial aspects of managing care are provided through accounting techniques and economic analysis. Health care delivery, health policy, and legal issues are integrated into course work and administrative residency experiences.

This program leads to the Master of Science in Nursing with an emphasis in Leadership and Administration and prepares advanced nurse managers for executive leadership positions; provides the novice manager with leadership skills and advancement potential; and prepares managers for emerging non-hospital settings. Synthesis and application of nursing leadership and management is enhanced through administrative practice in selected health care settings. The program consists of 38 units and can be completed in three semesters of full-time study.

DEGREE REQUIREMENTS		UNITS
<i>Core Courses</i>		
NURS 511	Health Care Delivery System	3
NURS 550	Research: Investigative Inquiry	4
NURS 551	Research Integration: Capstone Experience	1
NURS 562	Leadership for Advanced Practice	3
		<u>11</u>

Specialty Courses

GSBA 510	Accounting Concepts and Financial Reporting	3
GSBA 543	Managerial Perspectives	3
NURS 514	Nursing and Health Care Economics	4
NURS 563L	Nursing Leadership Practicum	3
NURS 566	Advanced Seminar in Nursing Leadership	3
NURS 567L	Advanced Practicum in Nursing Leadership	3
NURS 571L	Advanced Practicum Residency	4
PUAD 536	Legal Issues in Health Care Delivery	4
		<u>27</u>

Total units: 38

Care Coordination Certificate

Case management (care coordination) is increasingly being recognized as an essential component of managed care which is the key to major health care reform in the United States. Use of case management approaches has shown reduction in health care costs, improvements in quality of life, improvements in rehabilitation, and increased client satisfaction and compliance with a medical care regimen. This program explores the multi-dimensions of case management and stresses both fundamental theory and structure as well as necessary skills for case management and the coordination of care on a professional level. This certificate program is designed for those who are working in the case management field as well as those who wish to enter it. It stresses standards of care and performance, the process of care coordination and serves as the foundation for case management in multiple settings. The program consists of 12 units and can be completed in a six-month period. This includes both classroom work and a role practicum. Admission requirements for the care coordination certificate include: Registered Nurse in the state of California and a bachelor's degree in any field.

The didactic courses are open to any health care professional with a bachelor's degree who is involved or interested in the care coordination field. The role practicum course, however, is open only to registered nurses licensed in the state of California.

REQUIRED COURSES		UNITS
NURS 503	Introduction to Case Management	4
NURS 504	Skills for Case Management	4
NURS 505L	Role-Practicum and Seminar in Care Coordination	4
		<u>12</u>

M.S./M.B.A. Dual Degree Program

Responding to the growing demand for nursing administrators with high-level management, leadership and business skills as well as a knowledge of nursing, the USC Department of Nursing has joined an elite group of universities throughout the country who offer dual degree programs. This M.S./M.B.A. dual degree program is offered cooperatively by the Department of Nursing and the Marshall School of Business. Students must complete concurrently all requirements established by both programs for their respective degrees.

This three-year program involves completion of the first year in the Department of Nursing, the second in the Marshall School of Business and then completion of the balance of the nursing program and related cognates in business.

A total of 48 units of business course work is required: all courses required in an M.B.A. core program and graduate business electives sufficient to bring the total units completed in the Marshall School of Business to at least 48.

Courses of Instruction

NURSING (NURS)

The terms indicated are *expected* but are not *guaranteed*. For the courses offered during any given term, consult the *Schedule of Classes*.

202 Gateway to Health: Social Ecology Perspectives (4, Sp) The introductory course to the minor in Health: Social Ecology Perspectives. The diverse social ecology forces that influence the health care delivery system are discussed. (Duplicates credit in former NURS 101.)

204 Contemporary Issues in Bioethics (4) Examination of current issues in bioethics, including reproduction, professional-patient relationships, organ transplantation, futile treatment, and death and dying issues.

220 Family Health (2, FaSp) Focus on health teaching in families to better prepare family members to monitor family health and make appropriate contacts for care; based on the principle that healthy families make healthy communities.

302 Nursing Science (3, FaSp) Introduction to professional nursing practice and education. Emphasis on roles and processes for practice with integration of communication concepts and nursing models/diagnosis. *Prerequisite:* admission to RN to BSN program.

303 Nursing Care of Children and Families (3, FaSp) Nursing care of infants, children, adolescents and their families focusing on the nurse's role in assisting families through life transitions. (Duplicates credit in former NURS 403.) *Prerequisite:* NURS 304, NURS 309; *corequisite:* NURS 313L, NURS 322.

304 Medical-Surgical Nursing I (4, Fa) Knowledge for nursing of adults and elderly, with acute and chronic health problems from a self care framework. *Corequisite:* NURS 309, NURS 314L.

305 Psychiatric Nursing (2, FaSp) Knowledge for psychiatric nursing of adults and groups within a self care framework. *Prerequisite:* NURS 317L, NURS 319L; *corequisite:* NURS 315.

306 Nursing Care of Women and Newborn Infants (4, Sp) Knowledge for nursing of infants and women, and issues related to women's health care. *Prerequisite:* NURS 304; *corequisite:* NURS 316L; NURS 322 or NURS 323.

307 Nursing Theory and Historical Perspective (2, FaSp) Beginning study of the theory, practice, and history of nursing. Completion of all GE courses and admission to the nursing program required.

308 Human Development: Health Issues Across the Life Span (4, FaSp) Diversity in health care priorities based on individual variations in growth and development across the life span. Implications for health care delivery to families. (Duplicates credit in former NURS 201.)

309 Health Assessment (3, Fa) Health assessment of the individual. Communication, interviewing, history taking, and physical assessment of the individual with an emphasis on health promotion. Open to nursing majors and minors only. *Corequisite:* NURS 319L.

313L Nursing Care of Children and Families Practicum (2, FaSp) Nursing care of children and families with acute and chronic health problems. Practice in acute care and family centered ambulatory settings. (Duplicates credit in former NURS 413L.) *Prerequisite:* NURS 314L, NURS 317L, NURS 319L; *corequisite:* NURS 303.

314L Medical-Surgical Nursing Practicum I (4, Fa) Nursing care of adults and older adults with acute and chronic health problems. Practice in acute care settings, ambulatory, and community settings. *Corequisite:* NURS 304, NURS 309.

315L Psychiatric Nursing Practicum (2, FaSp) Nursing care for adolescents, adults and elderly with psychiatric health problems. Practice in public and private clinical agencies and in community settings. *Prerequisite:* NURS 317L, NURS 319L; *corequisite:* NURS 305.

316L Nursing Care of Women and Newborn Infants Practicum (2, FaSp) Nursing care of women with health care problems, including care of women during the childbearing years and infants. *Prerequisite:* NURS 304, NURS 314L, NURS 317L, NURS 319L; *corequisite:* NURS 306.

317L Fundamental Clinical Nursing Skills (2, Fa) Basic nursing skills with appropriate focused assessments in conjunction with demonstrations; multi-media instruction; student return demonstrations of skills.

319L Health Assessment Practicum (1, Fa) Application of health assessment content in the clinical laboratory setting. Interviewing, communication, history-taking, and physical assessment of the adult client will be stressed. *Corequisite:* NURS 309.

322 Foundation for Practice: Pathological, Nutritional and Pharmacologic Concepts (2, FaSp) A course focusing on the pathophysiology of selected health deviations. Pharmacology and nutritional interventions as well as the dynamic nature of disease and the body response to illness are emphasized. (Duplicates credit in former NURS 318ab, NURS 321.)

323 Concepts for Practice I: Pathological, Nutritional and Pharmacologic Concepts (2, FaSp) A course focusing on the pathophysiology of selected health deviations pertinent to children and adolescents. Pharmacology and nutritional interventions as well as the dynamic nature of disease and the body response to illness are emphasized. *Prerequisite:* NURS 322. (Duplicates credit in former NURS 318ab, NURS 321.)

324 Concepts for Practice II: Pathological, Nutritional and Pharmacologic Concepts (2, FaSp) An advanced course focusing on the pathophysiology of selected complex health deviations. Pharmacology and nutritional interventions as well as the dynamic nature of disease and the body response to illness are emphasized. *Prerequisite:* NURS 323. (Duplicates credit in former NURS 318ab, NURS 321.)

325 Alternative Therapies in Health Care (4, Irregular) Examination of historical, theoretical, sociocultural, economical, and clinical aspects of selected alternative healing therapies and systems.

329m Diversity in Human Sexuality: the Roles of Ethnicity, Gender, and Culture (4, Sp) A critical examination of the history, communication, research methods and controversial issues in human sexuality and relationships among ethnicity, gender, age, culture and human sexuality. (Duplicates credit in former NURS 219.)

390 Special Problems (1-4) Supervised, individual studies. No more than one registration permitted. Enrollment by petition only.

402 Community and Home Health Nursing (3, FaSp) Knowledge for nursing in the community, and community home health methods of nursing care delivery. *Prerequisite:* NURS 303, NURS 304; *corequisite:* NURS 412L.

404 Advanced Medical-Surgical Nursing III (2, FaSp) Knowledge for nursing of critically ill persons across the life span. *Prerequisite:* NURS 324, NURS 406; *corequisite:* NURS 414L.

405 Professional Ethics, Nursing Leadership Management (3, FaSp) Organizational models of nursing; nursing roles in the health care system; professional accountability; ethical/legal issues and decision making; quality; policy; leadership; change; advocacy. *Prerequisite:* NURS 202 or NURS 307; *corequisite:* NURS 415L.

406 Medical Surgical Nursing II (4, FaSp) Knowledge for nursing of adults and elderly with complex acute health problems. *Prerequisite:* NURS 304; *corequisite:* NURS 416L.

412L Community and Home Health Nursing Practicum (4, FaSp) Nursing care for clients in community and home; assessment and promotion of health care in specific communities; practice in community/home health settings. *Prerequisite:* NURS 313L, NURS 316L; *corequisite:* NURS 402.

414L Advanced Medical-Surgical Practicum III (2, Sp) Experience in helping critically ill persons effectively negotiate a transition to wellness. Practice in a variety of settings allows for comprehensive examination of all aspects of critical care nursing. *Prerequisite:* NURS 416L; *corequisite:* NURS 404.

415L Nursing Leadership and Management Practicum (3, FaSp) Application of leadership and management content; evaluation of organizational models for nursing practice in complex health care settings; analysis of ethical issues in practice settings. *Corequisite:* NURS 405.

416L Medical-Surgical Nursing II Practicum (4, Fa) Nursing care of adults and elderly with complex and acute health problems. Practice in acute care settings. *Prerequisite:* NURS 314L, NURS 317L; *corequisite:* NURS 406.

419 Human Sexuality (2, FaSp) Human sexuality from a biological, social-psychological and historico-cultural perspective.

420 Transcultural Health Care (2-4, FaSp) Identification of health/illness environments (psychological, sociological, cultural, and economic) that place client at risk; analysis of behavior that leads to health/illness. Junior status.

421m Understanding Diversity and Domestic Violence and Community Responses (4, Sp) Exploration of diversity and theories explaining domestic violence and elder abuse. Interdisciplinary health care approaches for domestic violence survivors including justice system, legal, policy, and cultural issues.

422 Spiritual Dimensions of Health Care (2-4) Exploration of diverse spiritual and religious responses to illness using experiential and empirical knowledge.

423 Selected Topics in Nursing (2-4, max 4, Irregular) Introduction and survey of current issues, concepts, and research relevant to selected aspects of nursing. *Prerequisite:* departmental approval.

450 Nursing Ethics and Law (4, FaSp) Examination of personal and professional values in ethical dilemmas; related issues in nursing and health care; ethical and legal parameters of nursing. *Prerequisite:* senior status and satisfactory completion of university writing requirement.

461 Nursing Research (3, Sp) Basic research concepts, their relation to nursing theory and application to nursing practice; systematic exploration of the research proposal process. *Corequisite:* HP 340L or PPMT 404 or PSYC 274 or SOCI 314.

480L Clinical Intensive (1) A cumulative clinical experience to offer the student the opportunity to synthesize concepts and knowledge in order to graduate with refined clinical and advanced leadership skills. Open to nursing majors only. Must be taken in final term. *Corequisite:* NURS 414L, NURS 416L.

490x Directed Research (2-8, max 8) Individual research and readings. Not available for graduate credit. *Prerequisite:* departmental approval.

491 Special Projects (1-4, max 8, FaSpSm) Faculty supervision of student application of theories, principles, and research to innovative projects that go beyond required course work. *Prerequisite:* departmental approval.

499 Special Topics (2-4, max 8) Selected topics in various areas within nursing. (Nursing Elective.) *Prerequisite:* departmental approval.

500 Nursing Theories (3) Analysis of major nursing theories and theory development. *Prerequisite:* admission to M.S.N. Program or departmental approval.

501 Introduction to Enterostomal Therapy Nursing (4, Sp) This course reviews the anatomy, physiology, and pathophysiology of the GI, GU, and Integumentary systems. Nursing Assessment and appropriate intervention will be emphasized.

502 Advanced Enterostomal Therapy Nursing (4, Sp) This course is designed to provide the student the opportunity to review and integrate the use of knowledge of nutrition, counseling, and teaching as each applies to these clients. Concepts of role implementation will also be explored. *Corequisite:* NURS 501.

503 Introduction to Case Management (4, Sp) An introduction to and general overview of care coordination (case management) including definition, models and factors affecting program implementation.

504 Skills for Case Management (4, Sp) Second in a series designed to prepare case managers to practice in various settings. Emphasis on skill acquisition: assessment, communication, planning, advocacy, negotiation, and evaluation. *Corequisite:* NURS 503.

505L Role-Practicum and Seminar in Care Coordination (4) Advanced seminar topics related to advanced nursing practice in care coordination. Residency with preceptor and faculty guidance in care coordination. *Prerequisite:* NURS 503; *corequisite:* NURS 504.

511 Health Care Delivery Systems (3, FaSp) Analysis of the health care system; economic, political, and societal driving forces; nursing care delivery systems; successful management functions and strategies; current trends and issues, and policy implications.

512L Enterostomal Therapy Practicum (4, Sp) The practicum components provide the student with the opportunity to perform the skills in advanced Enterostomal Therapy Nursing in a collaborative practice with Certified Enterostomal Therapist Nurses wherever clients access the Health Care System. Lab discussion will be 1 unit of 4. *Corequisite:* NURS 501, NURS 502.

514 Nursing and Health Care Economics (4, Sp) Basic foundation for understanding economics in nursing and health care; consumer demand, resources, utilization, cost, and market theory for explanatory and evaluation purposes.

515 Ethics in Health Care (3) Ethics in health care including values, ethical theories and principles, clinical decision-making, legal and cross-cultural perspectives, ethical issues encountered by health care professionals and resolution methods.

516 Advanced Practice Roles in Nursing (2, FaSp) Development of advanced practice roles in nursing from historical, legal, economic, political, social perspectives. Role acquisition, role conflict, role strain, and role definition.

521 Pathophysiology for Advanced Practice (2, Fa) Integration of advanced pathophysiological concepts, application to care management by advanced practice nurses in the analysis of physiological and psychological transitions. *Recommended preparation:* undergraduate pathophysiology.

522 Intensive Health Assessment for Advanced Practice Nurses (2, Fa) Advanced health assessment course emphasizing systems review, focusing on clinical skills leadership and knowledge for advanced practice nurses. *Prerequisite:* departmental approval.

523 Primary Care of the Family I (3) Assessment, diagnosis, and management of common health problems from infancy through young adulthood. Applicable theories and research applied to health promotion in primary care of multiethnic families. Admission to FNP program required. *Prerequisite:* NURS 521, NURS 522; *corequisite:* NURS 524L, NURS 565.

524L Practicum in Primary Care of the Family I (4, Fa) Clinical preceptorship focusing on: family assessment; health promotion; diagnosis and management of common health problems in infancy through young adulthood. *Prerequisite:* acceptance into FNP program; "pass" on physical assessment performance exam; *corequisite:* NURS 523, NURS 565.

525 Primary Care of Geriatric Clients I (3, Sp) Evaluation, diagnosis, and management of episodic physical and neurobehavioral problems of geriatric clients, particularly underserved elderly psychiatric clients in primary adult care, promotion, and ethics. *Corequisite:* NURS 526L.

526L Practicum in Primary Care of Geriatric Clients I (4, Sp) Supervised clinical preceptorship focusing on assessment, diagnosis and management of common, acute, physical, psychosocial, and psychiatric health problems of geriatric clients and their social networks. *Corequisite:* NURS 525.

533 Primary Care of the Family II (3, Sp) Assessment, diagnosis, and management of common health problems of mature adults. Applicable theories and research applied to health promotion in primary care of multiethnic families. *Prerequisite:* NURS 523, NURS 524L; *corequisite:* NURS 534L.

534L Practicum in Primary Care of the Family II (4, Sp) Clinical preceptorship focusing on: family intervention; health promotion; diagnosis and management of common health problems in mature adults and the elderly. *Prerequisite:* NURS 523, NURS 524L; *corequisite:* NURS 533.

543 Seminar on Advanced Clinical Topics in Primary Care (3, Sm) Synthesis of theories and research to develop comprehensive management plans for primary care of multiethnic families with complex health problems living in violent environments. *Prerequisite:* NURS 523, NURS 524L, NURS 533, NURS 534L; *corequisite:* NURS 544L.

544L Advanced Clinical Residency in Primary Care (4, Sm) Synthesis preceptorship focusing on management of complex primary health care problems in multi-ethnic families. *Prerequisite:* NURS 523, NURS 524L, NURS 533, NURS 534L; *corequisite:* NURS 543.

548 Primary Care of Geriatric Clients II (3, Fa) Diagnosis and management of chronic, complex physical and psychiatric problems of clients: primary and tertiary care of homeless and disabled elderly persons. *Corequisite:* NURS 549L.

549L Practicum in Primary Care of Geriatric Clients II (4, Fa) Supervised clinical preceptorship focusing on assessment, diagnosis, management of common chronic health problems of elderly clients and their families. *Corequisite:* NURS 548.

550 Research: Investigative Inquiry (4) Utilization of research, which includes the evaluation of research, problem identification within the practice setting, awareness of practice outcomes and the clinical application of research. (Duplicates credit in NURS 560a and former NURS 561.) *Recommended preparation:* basic statistics course. *Prerequisite:* research course or departmental approval.

551 Research Integration: Capstone Experience (1) A capstone course that requires students to demonstrate the ability to integrate theory, research, and practice through a mentored research experience with direct relevance to graduate specialization. (Duplicates credit in NURS 560b and former NURS 561.) *Prerequisite:* NURS 550.

560ab Theory and Research in Nursing (3-3) *a:* An introduction to the research process and the major theories utilized in nursing; an overview of the development of a research proposal, and using research. *b:* Reviews research process and major theories used in nursing. Analyzes research designs. Research proposal developed to test theory and use an appropriate design and analysis. (Duplicates credit in NURS 500 and NURS 561.)

562 Leadership for Advanced Practice (3) Leadership development based on competencies necessary for advanced practice nurse leaders in managed care and other changing health care environments. Departmental approval required. *Prerequisite:* NURS 511.

563L Nursing Leadership Practicum (3) Nursing leadership practicum with preceptor and faculty guidance in financial management, strategic planning, decision-making and developing a professional staff. *Prerequisite:* NURS 511; *corequisite:* NURS 560a; *concurrent enrollment:* NURS 562.

565 Pharmacology for Advanced Practice Nursing (2) Mechanisms of action, interaction, side effects, and prescribing guidelines for drugs utilized across the life cycle. Pharmacokinetics, pharmacodynamics with implications for dosage will be emphasized.

566 Advanced Seminar in Nursing Leadership (3) Advanced nursing leadership. Uses organizational theory to examine professional, structural, process and outcome components of managing patient care delivery in various health care settings. *Prerequisite:* NURS 560a, NURS 562; *concurrent enrollment:* NURS 567L.

567L Advanced Practicum in Nursing Leadership (3) Nursing leadership practicum with preceptor and faculty guidance in organizational behavior and theory, leadership and management theory, nursing research, organizational change, vision and strategic direction. *Prerequisite:* NURS 550, NURS 562; *corequisite:* NURS 566.

568 Geriatric Pharmacology (2, Fa) Focus on the critical issues in medications for geriatric clients. Discussion of pharmacokinetics and pharmacodynamic changes and issues in aging related to use, dosage, and prescription of drugs. Education and prevention of drug interactions and reactions are emphasized. Available to geriatric nurse practitioner program participants only.

570 Seminar on Integration into Health Care System (1, Sp) Topics related to a variety of advanced roles in nursing, examined within the context of health care delivery system. *Corequisite:* NURS 571L or 544L.

571L Advanced Practicum Residency (4, Sp) Final residency with preceptor and faculty guidance. *Prerequisite:* NURS 511 and two sets of clinical concentration and practicum courses.

572 Nurse Anesthesia I (4, Sp) Anesthesia theory of administration, assessment and monitoring. Case management including airway and blood/fluid management and the anesthesia machine. Lecture-case study format. *Prerequisite:* acceptance in nurse anesthesia program.

573 Pharmacology of Anesthesia Practice (4, Sp) Pharmacokinetic and pharmacodynamic principles, uptake and distribution of inhalational anesthetics. Pharmacology of cardiovascular and central nervous system drugs and anesthetic applications. *Prerequisite:* acceptance in nurse anesthesia program.

574 Pathophysiology Related to Anesthesia Practice (4, Sm) In-depth study of cardiovascular, respiratory, renal, liver, endocrine and neuropathophysiology with application of these principles to anesthetic case management. *Corequisite:* NURS 572, NURS 573.

575L Clinical Residency in Nurse Anesthesia I (4, Sm) Correlation of techniques of anesthesia administration with application of scientific and pharmacologic theory in the clinical setting with observation and supervised clinical practicum. *Corequisite:* NURS 572, NURS 573.

576 Nurse Anesthesia II (5, Fa) Advanced theory of anesthesia management for general and specialized procedures, diagnostic procedures, regional anesthesia, pediatrics and obstetrics. Emphasizes planning and decision-making. *Corequisite:* NURS 574, NURS 575L.

577L Advanced Clinical Residency in Nurse Anesthesia I (3-8, Fa) Correlation of techniques of anesthesia administration with application of scientific and pharmacologic theory in geriatric, obstetrical, pediatric anesthesia; anesthetic management to include medically compromised patients. *Corequisite:* NURS 576.

578L Advanced Clinical Residency in Nurse Anesthesia II (4-8, Sp) Correlation of techniques of anesthesia administration with application of scientific and pharmacologic theory in neuroanesthesia, cardiac anesthesia, trauma anesthesia, critical care and pain management. *Corequisite:* NURS 577L.

579 Basic Nurse Midwifery Assessment and Management (4) Theory, pathophysiology, diagnosis, and nurse midwifery management of newborns and childbearing women. Evaluation of research findings for patient care management will be emphasized. Open to nursing midwifery students only. *Corequisite:* NURS 587.

580 Intermediate Nurse Midwifery Assessment and Management (4) Theory, research, assessment, pathophysiology, diagnosis, and management of complications of the childbearing woman and newborn. *Prerequisite:* NURS 579, NURS 587; *corequisite:* NURS 589.



The Department of Nursing provides students with a rich base of clinical research, experiences, opportunities and support services.

581 Primary Care in Nurse Midwifery (2) Theory and research in primary care emphasizing pathophysiology, diagnosis and management of common health problems in women and newborns. Health promotion in multiethnic families highlighted. *Corequisite:* NURS 522.

582 Internship in Primary Care for Nurse Midwives (1) Application of primary care knowledge in the clinical setting. Clinical preceptorship for primary care assessment and management of women across the life span and newborns. *Prerequisite:* admission to the graduate program; *corequisite:* NURS 580, NURS 581.

583 Nurse Midwifery Assessment and Management of Well Woman Gynecology (3) Research, theory, pathophysiology, diagnosis and nurse midwifery management of the well woman throughout the life cycle. Emphasis on routine, chronic and acute disorders. (Duplicates credit in former NUMW 580.) *Prerequisite:* NURS 522, NURS 581, NURS 585; *corequisite:* NURS 584.

584 Interprofessional Practice in Health and Human Services in Inner City Communities (1, Fa) (Enroll in SOWK 584)

585 Reproductive Physiology/Pathophysiology for Advanced Practice (2) Systematic evaluation of theory and research in reproductive physiology and pathophysiology. Highlights steroid physiology, embryology, fetal circulation/physiology, menstrual cycles, male and female reproduction.

586 Internship for Well Woman Gynecology (1) Application of knowledge in well woman gynecology in the clinical setting. Clinical preceptorship in gynecology for women with routine, chronic and acute health problems. *Prerequisite:* NURS 522, NURS 581, NURS 585; *corequisite:* NURS 583. (Duplicates credit in former NUMW 581.)

587 Internship in Basic Nurse Midwifery Practice (3) Application of basic midwifery knowledge in the clinical setting. Clinical preceptorship of health promotion, diagnosis and management of the low risk childbearing woman and newborn. *Corequisite:* NURS 522.

588 Internship in Intermediate Nurse Midwifery Practice (1) Clinical application of knowledge in intermediate midwifery care. Clinical preceptorship of health promotion, diagnosis and management of the moderate risk childbearing woman and newborn. *Prerequisite:* NURS 579, NURS 587; *corequisite:* NURS 580.

589 Internship in Advanced Nurse Midwifery Practice (2) Synthesis of clinical knowledge and skill for nurse midwives. Residency incorporates full scope midwifery and primary care to prepare for independent nurse midwifery practice. (Duplicates credit in former NUMW 589.) *Prerequisite:* NURS 580, NURS 588.

590 Directed Research (1-12) Research leading to the master's degree. Maximum units which may be applied to the degree to be determined by the department. Graded CR/NC. *Prerequisite:* NURS 550 or NURS 551.

591 Special Project (1-4) Supervised learning in functional and/or clinical area of focus; includes a regularly scheduled seminar. *Prerequisite:* departmental approval.

Occupational Science and Occupational Therapy

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Faculty

Chair: Florence A. Clark, Ph.D., O.T.R.

Professors: Stanley Azen, Ph.D.; Florence A. Clark, Ph.D., O.T.R.; Ruth Zemke, Ph.D., O.T.R.

Associate Professors: Gelya Frank, Ph.D. (*Anthropology*); Mary Lawlor, Ph.D., O.T.R.; Loren Lipson, M.D.; Cheryl Mattingly, Ph.D.; Ann Neville-Jan, Ph.D., O.T.R.; L. Diane Parham, Ph.D., O.T.R.

Assistant Professors: Diane Kellegrew, Ph.D., O.T.R.; Jeanne Jackson, Ph.D., O.T.R.

Distinguished Adjunct Professor of Anthropology and Occupational Therapy: Jane Goodall Bryceson, Ph.D. (*Ethology*)

Professor of Clinical Occupational Therapy: Linda Fazio, Ph.D., O.T.R.

Assistant Professors of Clinical Occupational Therapy: Carolyn Snyder, M.A., O.T.R.; Chana Hiranaka, M.A., O.T.R.

Research Assistant Professors: Michael Carlson, Ph.D.; Barbara Cherry, Ph.D.; Anne Dunlea, Ph.D.

Adjunct Instructor: Susan Spitzer, M.A.

Instructors of Clinical Occupational Therapy: Leo Adobo, B.S., O.T.R.; Erna Blanche, M.A., O.T.R.; T. Chen, B.S., O.T.R.; Kayra Goodaker-Emmons, M.A., O.T.R.; C. Fitzgerald, B.S., O.T.R.; D. Gordon, M.A., O.T.R.; Michelle Harding, M.A., O.T.R.; Sarah Kelly, B.S., O.T.R.; D. Leary, M.A., O.T.R.; B. Que-Lee, O.T.R.; A. Long, B.S., O.T.R.; Gail Magdalena, C.H.T., O.T.R.; D. Mandel, M.A., O.T.R.; Julie McLaughlin Gray, M.A., O.T.R.; Whitney Pike, B.S., O.T.R.; Deborah Pitts, M.B.A., O.T.R.; K. Rowland, M.O.T., O.T.R.; Renee Soderlund, B.S., O.T.R.; J. Taquchi, M.A. O.T.R.; J. Vartanian, B.S., O.T.R.; A. Weliky, B.A., O.T.R.; I. Wong, B.S., O.T.R.; Brian Young, M.A., O.T.R.

Voluntary Clinical Faculty: Valerie Adams, M.A., O.T.R.; Michal Atkins, M.A., O.T.R.; Gitu Bhavnani, M.A., O.T.R.; Sue Bowles, M.A., O.T.R.; Sandra Burnett, M.A., O.T.R.;

Terri Chew-Nishimura, M.A., O.T.R.; Gina Coleman, M.A., O.T.R.; Lisa Deshaies, O.T.R.; Dottie Ecker, M.A., O.T.R.; John Fisher, O.T.R.; Linda Florey, M.A., Ph.D., O.T.R.; Sandra Greene, M.A., O.T.R.; Elise Holloway, M.A., O.T.R.; Sue Knox, M.A., Ph.D., O.T.R.; Sharon Lee, O.T.R., C.H.T.; Shay McAtee, M.A., O.T.R.; Susan Okamoto, O.T.R.; Karen Ozaki, O.T.R.; Olivia Raynor, Ph.D., O.T.R.; Pamela Roberts, O.T.R.; Tracy Uditsky, O.T.R., B.C.P.; Lynn Yasuda, O.T.R.

Emeritus Professors: Mary Reilly, Ed.D., O.T.R.; Elizabeth J. Yerxa, Ed.D., O.T.R.

Emeritus Associate Professor: Harriett Zlatohlavek, M.A., O.T.R.

Degrees Offered

The Department of Occupational Science and Occupational Therapy offers an undergraduate degree in Occupational Therapy and a minor in occupational science. The Master of Arts in Occupational Therapy is offered for students whose first degree is in another field as well as for registered occupational therapists seeking a post-professional degree. The department also offers the Ph.D. in Occupational Science.

Bachelor of Science

The undergraduate curriculum leads to the Bachelor of Science with a major in occupational therapy. An additional six-month internship is required for students to qualify for the national examination leading to certification by the National Board for Certification in Occupational Therapy. Professional study begins in the summer preceding the senior year. Major academic course work is completed during the senior year.

Admission Requirements

The major in occupational therapy is a competitive program which requires all interested students to apply directly to the Department of Occupational Science and Occupational Therapy. Applicants must be enrolled at USC and must complete one semester, or more, of

full-time study prior to applying to the major. Freshmen may apply following completion of their freshman year. Juniors must apply by January 15 for the program beginning the following June. Applications from underclassmen are reviewed as they are received during the academic year; juniors are reviewed after the January 15 deadline, and students are selected competitively according to the number of spaces available. Applicants will be notified as soon as admission decisions are made and every effort will be made to notify each applicant as rapidly as possible. The department's ability to process applications is dependent on receipt of complete and timely information.

Students may enter USC declaring pre-occupational therapy (POT) as their professional objective at the freshman, sophomore or junior level. It is recommended that students transferring from other institutions enter USC no later than the first semester of their junior year.

Two admissions applications are required for transfer students, one for the USC Undergraduate Admission Office and one for the Department of Occupational Science and Occupational Therapy. See the Admission section of this catalogue.

Requirements for admission are: (1) a cumulative grade point average of at least 2.75 in undergraduate courses completed; (2) a grade of "A" or "B" in occupational therapy prerequisite courses; (3) completion of all College of Letters, Arts and Sciences general education requirements; (4) specific experience (volunteer or paid) in helping roles (camp, school, hospital, community center, service clubs); (5) exposure to and exploration of occupational therapy as a career choice; (6) understanding of occupational therapy as demonstrated in autobiographical statement; and (7) satisfactory health status for professional activities and demands. No applicant will be denied admission on the basis of race, religion, creed or disability, provided functional health is sufficient to meet professional needs, both in the student role and as an entry-level practitioner.

Application Procedures

Applications will be reviewed when the following materials have been received by the Department of Occupational Science and Occupational Therapy: (1) completed departmental application form; (2) official transcripts with grades from all colleges or universities attended; (3) autobiographical statement including reasons for wanting to enter the profession, concept of occupational therapy, experience, personal data, skills and accomplishments; (4) three letters of recommendation from professors, employers or other professional people not related to applicant, sent directly to department. Admitted students must complete all prerequisite course work by time of entry into the department (the department must be informed of grades as completed and applicants should keep the department informed in writing of their plans and progress). A personal interview by the faculty or a registered occupational therapist living in the applicant's area may be arranged by the department after all transcripts and the autobiographical statement have been submitted.

Deadline

The deadline for junior applications is January 15 for the program beginning in June. Applicants will be notified as soon as admission decisions are made and every effort will be made to notify each applicant as rapidly as possible. The department's ability to process applications is dependent on receipt of complete information as listed above.

Newly admitted students enter the program in June. It is not possible to begin the program in either the fall or spring semesters.

Program Requirements

A total of 128 units is required for the Bachelor of Science degree.

Prerequisites

Prerequisites to the Bachelor of Science program include at least one four-unit course in each of the following subjects: human anatomy with a laboratory and human physiology with a laboratory (or combined anatomy/physiology with laboratory for a two-semester sequence); introductory general psychology; introductory general sociology or cultural anthropology; abnormal psychology; and life span human growth and development.

General Education Requirements

The university's general education program provides a coherent, integrated introduction to the breadth of knowledge you will need to consider yourself (and to be considered by other people) a generally well-educated person. This new program requires six courses in different categories, plus writing and diversity requirements, which are described in detail on pages 167 through 172.

All students who (1) entered the Department of Occupational Science and Occupational Therapy as freshmen in the summer of 1997 or later; or (2) began college elsewhere in the summer of 1997 or later; or (3) began college earlier but transfer to USC in the summer of 2000 or later, must satisfy the requirements of the new general education program. Other students whose schedules permit are encouraged to follow the new program as well. However, continuing and transfer students who began college full-time before summer 1997 and enter USC before summer 2000 may elect to satisfy a "transitional" plan instead, which is outlined on page 172.

Major Requirements

REQUIRED COURSES	UNITS
OT 405 Occupational Therapy Skills Theory I	4
OT 415 Medical Lectures	4
OT 420 Human Development Concepts	4
OT 440 Foundations of Occupation/Kinesiology	2
OT 441 Foundations of Occupation/Neurology	2
OT 452 Occupational Therapy, Theory and Practice/Physical Disabilities	4
OT 453 Occupational Therapy, Theory and Practice/ Psychosocial Dysfunction	4
OT 463 Occupational Therapy Skills Theory II	2
OT 464 Occupational Therapy Skills Theory III	4

OT 465	Advanced Occupational Therapy Theory — Psychosocial	3
OT 466	Advanced Occupational Therapy Theory — Physical Dysfunction	3
OT 467	Advanced Occupational Therapy Theory — Pediatrics	3
OT 468	Advanced Occupational Therapy Theory — Adolescence, Adulthood, and Aging	3
OT 485	Occupational Science and Occupational Therapy	2
OT 486ab	Clinical Internship with Seminar	2-2

Electives may be taken to make a total of 128 units. Enrollment in occupational therapy courses is limited to students selected by the Department of Occupational Science and Occupational Therapy. Only those who possess the qualifications necessary for successful practice as registered occupational therapists are selected.

Students who wish prerequisite credit for courses transferable from another institution must gain departmental authorization for such courses prior to entry into the occupational therapy program.

Scholastic Standards

Students must maintain a minimum grade point average of 2.67 (A = 4.0) in required courses at least two out of the three semesters for continuation in the program.

Counseling

Prerequisite counseling and other advisement are available from the department.

Minor in Occupational Science

The department offers a minor in the dynamic new discipline of occupational science. It is one of the only programs in the world that offers undergraduates the opportunity to explore this field.

Unlike other creatures, humans are innately driven to fill their time with interesting, meaningful activities, which scholars call "occupations." That is, humans need to be occupied. These occupations have a profound impact on physical and mental health, one's sense of well-being and the experience of quality of life. Occupational Science seeks to understand the precise nature and function of occupations and the critical effect of daily activity on human beings. Scientists working in the field examine questions such as: what

is the relationship between childhood occupations and adult competency and achievement; what constitutes a healthy balance of work, rest and leisure; what factors contribute to a good fit between a particular individual and his or her occupations; as well as many other issues.

The minor in occupational science requires a total of 20 units including a gateway course (OT 250) plus four upper division courses selected from seven course offerings. It is open to all majors at USC.

LOWER DIVISION: GATEWAY COURSE		UNITS
OT 250	Introduction to Occupational Science and Occupational Therapy	4

UPPER DIVISION: 4 COURSES REQUIRED		UNITS
OT 300	Occupational Expressions of Diverse Identities and Lifestyles	4
OT 320	The Nature of Human Occupation: Form, Function, and Meaning	4
OT 325	The Biosocial Context of Human Occupation	4
OT 330	Perspectives on the Daily Life of Families	4
OT 350	Disability, Occupations, and the Health Care System	4
OT 360	Creating the Self through Narrative: Acts of Life Story Production	4
OT 375	The Narrative Structure of Social Action: Narrative, Healing, and Occupation	4

Pi Theta Epsilon

Pi Theta Epsilon is a national honor society for occupational therapy students and alumni. This society recognizes and encourages superior scholarship among students enrolled in undergraduate and entry-level graduate programs of occupational therapy across the United States.

The Alpha Eta Chapter of Pi Theta Epsilon at the University of Southern California selects candidates early in the spring semester of each year based on their academic standing and their potential for leadership in the profession.

Master of Arts

The Department of Occupational Science and Occupational Therapy offers a Master of Arts degree with two routes of entry. Those with a baccalaureate degree in occupational therapy who are certified or eligible for certification by the National Board for Certification in Occupational Therapy begin taking graduate course work (500 level) immediately. Those with baccalaureate degrees in fields other than occupational therapy take 400-level courses before beginning graduate work. For these students, eligibility to sit for the National Board for Certification in Occupational Therapy examination occurs when all 400-level course work is completed, including the six months of internship, and the M.A. degree has been awarded.

Admission Requirements

For those with baccalaureate degrees in occupational therapy: prerequisites are a bachelor's degree in occupational therapy from an accredited college or university; registration (or eligibility for registration) by the National Board for Certification in Occupational Therapy; a minimum grade point average of 3.0 (A = 4.0); acceptable scores on the General Test of the Graduate Record Examinations; three letters of recommendation and an autobiographical sketch/statement of purpose.

For those with baccalaureate degrees in fields other than occupational therapy: prerequisites are a bachelor's degree from an accredited college or university; successful completion of the following courses: human anatomy with laboratory, human physiology with laboratory

(or combined anatomy/physiology for a two-semester sequence), human life span development, introductory psychology, abnormal psychology, and either cultural anthropology or sociology, experience (volunteer or paid) in a helping role with individuals and/or groups (for example, camp counselor or youth group leader) and experience (volunteer or paid) within a health care facility, preferably within an occupational therapy setting.

Also required are a minimum undergraduate grade point average of 3.0; a minimum grade point average of 3.0 in departmental prerequisite courses (see above) with no course work grade less than "C" (pass/fail grading is not acceptable for the departmental prerequisites); acceptable scores on the General Test of the Graduate Record Examinations; three letters of recommendation and a statement of purpose/autobiographical sketch.

Courses prerequisite to master's degree work include: OT 405, 415, 420, 440, 441, 452, 453, 463, 464, 465, 466, 467, 468, 485 and 486ab.

Application Procedure

For those with baccalaureate degrees in occupational therapy: applications are accepted at any time, preferably by March 31 for fall admission.

For those with degrees in fields other than occupational therapy: applications are due February 15. The 400-level courses which are prerequisites to 500-level work in occupational therapy begin in June.

Applications received after the February 15 deadline are considered on a space available basis. Application materials include: (1) separate application to the USC Graduate School; (2) departmental application form obtained from the Occupational Science and Occupational Therapy Department; (3) three references indicating the applicant's perspectives on occupational therapy; (5) transcripts from all colleges/universities attended; (6) results of the aptitude test of the Graduate Record Examinations. This should be taken no later than the February prior to admission request. A personal interview may be requested. Application must be made to the Department of Occupational Science and Occupational Therapy, 1540 Alcazar Street (CHP-133), Los Angeles, CA 90033, as well as to the USC Admission Office. Transcripts must be sent to the department as well as to the Admission Office.

International Students

Occupational therapists educated outside of the United States must have credentials evaluated by the Office of International Admissions before initiating application to the department. See the Admissions section of this catalogue. International students must demonstrate competency in English, as measured by the Test of English as a Foreign Language (TOEFL).

Degree Requirements

This degree is under the jurisdiction of the USC Graduate School. Students should also refer to the Graduate School section of this catalogue (page 555) for general regulations.

All courses applied toward the degree must be courses accepted by the Graduate School.

Requirements include: GPA of 3.0 in all course work attempted and all course work applied to the degree; at least 2/3 of units applied to the degree must be at the 500 level or higher.

REQUIRED COURSES FOR BOTH OPTIONS		UNITS
OT 506	History of Occupational Therapy Practice	4
OT 507	Theory in a Practice Profession	4
OT 550	Occupational Behavior Model	4
OT 588	Research Methods	4
PM 510L	Biometry Principles	4

Thesis Option

A minimum of 28 units is required: 20 units of required courses, four units of elective and four units of OT 594ab Master's Thesis. Acceptance of the thesis by the guidance committee and the university completes the degree.

Comprehensive Examination Option

A minimum of 32 units is required: 20 units of required courses, four units of elective and eight units of occupational therapy electives. Successful performance on a written comprehensive examination administered on campus each semester completes the degree.

Doctor of Philosophy

The Ph.D. in Occupational Science educates individuals to engage in the scientific study of human occupation, the purposeful activities that constitute our life experiences. This important new science is chiefly concerned with the unique capacity of humans to develop adaptive skills, such as tool use and related occupational behaviors, and to choose and orchestrate daily occupations. It also seeks to understand the function, structure and inter-relationship of these occupations and their impact on individuals and institutions.

The focus on occupation distinguishes this program from closely-related disciplines such as psychology, sociology and anthropology. The program emphasizes the development of research skills and encourages students to organize and synthesize knowledge to contribute to occupational science theory, as opposed to therapeutic application.

Admission Requirements

Applicants for admission to the Ph.D. program are expected to have a baccalaureate degree in an appropriate field, such as one of the biological or social sciences or occupational therapy, with a minimum GPA of 3.0 (A = 4.0) and a minimum score of 1100 on the verbal and quantitative sections of the Graduate Record Examinations. At least three letters of reference must also be submitted. Other considerations include evidence of academic potential based on master's level study (if relevant), research skills and interest, and a statement of purpose. International students must demonstrate competency in English, as measured by the Test of English as a Foreign Language (TOEFL) examination.

Degree Requirements

This degree is awarded under the jurisdiction of the Graduate School. Refer to the Requirements for Graduation section (page 56) and the Graduate School section of this catalogue

(page 555) for general regulations. All courses applied toward the degree must be courses accepted by the USC Graduate School.

Course Requirements

Satisfactory completion of 60 units beyond the baccalaureate degree is required, including the following courses:

REQUIRED COURSES		UNITS
OT 506	History of Occupational Therapy Practice	4
OT 550	Occupational Behavior Model	4
OT 551	Adaptation and Disability	4
OT 553	Play and Exploratory Behavior	4
OT 588	Research Methods	4
OT 604	Temporal Adaptation: Organization and Use of Time	4
OT 612	Information Processing and Occupation	4
OT 650	Development of Adaptive Skills	4
OT 655	Work and Leisure	4
PM 510L	Biometry Principles	4

Upon departmental approval, an elective may be substituted for a 500-level course if the student has previously completed graduate work encompassing similar content.

Those students who also wish to participate in clinical practice in occupational therapy may opt to complete a master's degree in occupational therapy. Such students are required to complete the requirements for that degree as well as the occupational therapy undergraduate major courses if they are not registered occupational therapists or eligible for registration prior to study.

Cognate Requirement

Completion of 12 units in a topic area such as one of the following is required: quantitative research approaches, qualitative research approaches, neuroscience, social development, life span development or gerontology.

Research Practicum

Each student will enroll in one unit of OT 660 Research Practicum in Occupation per semester during the first two years of doctoral level study. In this practicum the student will develop research skills by working as part of a research team under the direction of a faculty member.

Dissertation Enrollment

Doctoral students must submit a dissertation according to the policies and procedures described in the Graduate School section of this catalogue. Registration in OT 794 Doctoral Dissertation for a minimum of four units (two units in each of two consecutive semesters) is required.

Screening Procedures

Departmental screening will be required. Passing this procedure is prerequisite to continuation in the doctoral program. Directions for obtaining and filing the Report on Ph.D. Screening Procedures are found in the Graduate School section of this catalogue.

Foreign Language or Research Skills

The Ph.D. in Occupational Science does not require the demonstration of competence in a foreign language. However, each student is expected to achieve expertise, as defined by the student's guidance committee, in either qualitative or quantitative research techniques through participation in course work and the research practicum.

Guidance Committee

The guidance committee is composed of five faculty members. Three members of the committee must be regular faculty from the Department of Occupational Science and Occupational Therapy. Two additional members will be faculty from outside the department, one of whom must be a member of the faculty in the student's cognate area. Complete regulations for establishing a guidance committee are found in the Graduate School section of this catalogue.

Qualifying Examination

The qualifying examination is comprehensive in nature and requires the student to demonstrate a grasp of content from the core courses and the cognate area. The examination is both written and oral and is set and administered by the student's guidance committee. Refer to the Graduate School section of this catalogue for specific directions for filing a request to take the examination.

Courses of Instruction

OCCUPATIONAL SCIENCE AND OCCUPATIONAL THERAPY (OT)

The terms indicated are *expected* but are not *guaranteed*. For the courses offered during any given term, consult the *Schedule of Classes*.

105g Culture, Medicine and Politics (4, Fa)
(Enroll in ANTH 105g)

220 Introduction to Occupational Therapy (2, FaSp) Exploration of philosophy and practice of occupational therapy (helping the disabled regain independence), including visits to hospitals; designed for students considering a health career.

250 Introduction to Occupational Science and Occupational Therapy (4) Introduction to concept of occupation and overview of human drive for meaningful activity; impact of occupations on health and well-being; analysis of personal occupational patterns; selected therapeutic applications.

300 Occupational Expressions of Diverse Identities and Lifestyles (4) Exploration of the diverse ways occupational practices become central to identity, reify standard social ideologies, and are manipulated to redress conventional standards.

305m Culture, Medicine and Politics (4, FaSp) Survey of the impact of public institutions, the private sector, and cultural practices on health and the delivery of health care in the United States.

Dissertation

Doctoral students must submit a dissertation according to the policies and procedures of the Graduate School section of this catalogue. Upon approval of the preliminary copy of the dissertation by all members of the dissertation committee, the candidate must pass an oral defense of the dissertation. Upon successful completion of the oral defense and revisions, approval for final typing is granted and the committee recommends the candidate to the Graduate School for the Ph.D.

Teaching

To prepare students for anticipated roles as faculty members, a teaching component is incorporated into the program. Students who receive teaching assistantships will be required to assist in relevant teaching assignments for a minimum of one academic year.

Those who do not receive teaching assistantships are required to present a minimum of six lectures or laboratory sessions in the professional or master's degree program.

Additional Information

Further information about the baccalaureate, master's and doctoral programs can be obtained by writing or calling the USC Department of Occupational Science and Occupational Therapy, 1540 Alcazar Street (CHP 133), Los Angeles, CA 90033; (323) 442-2850, or by sending email to ot.dept.@hsc.usc.edu. Information regarding the Department of Occupational Science and Occupational Therapy is available on the web at www.usc.edu/hsc/ihp/ot.

320 The Nature of Human Occupation: Form, Function, and Meaning (4) The complex nature of human occupation is covered from an interdisciplinary perspective. Emphasis is on how occupation contributes to human experience in a lived world.

325 The Biosocial Context of Human Occupation (4) Hormonal and contextual (social, physical, and temporal) correlates of human occupations and psychological states; collection and interpretation of field data using innovative research methods.

330 Perspectives on the Daily Life of Families (4) Examines family structures and processes, the occupational dimensions of families, and the meanings embedded in the acts of daily life of contemporary families.

350 Disability, Occupations, and the Health Care System (4) Exploration of the ways in which able-bodyism, sexism, racism, classism and homophobia contribute to occupational opportunities or barriers and weave their way into health care.

360 Creating the Self through Narrative: Acts of Life Story Production (4) Analysis of life stories, life histories, and testimonies in social interactions, texts, and films. Life stories are an occupation to re-create the "Self" in response to conflict and change.

375 The Narrative Structure of Social Action: Narrative, Healing and Occupation (4) Narrative as guide and structure of practical action. Special emphasis on chronic illness and disability and narrative structure of clinical interactions.

390 Special Problems (1-4) Supervised, individual studies. No more than one registration permitted. Enrollment by petition only.

405 Occupational Therapy Skills Theory I (4, FaSm) Creative, manual, recreational, and self-care skills critical to occupational role function. Teaching and practice in laboratory and clinical settings. Lecture, laboratory, and clinic. Open only to OT majors.

415 Medical Lectures (4, Fa) Human pathology; classification and terminology, mechanisms of disease, description of the essentials of diseases of clinical significance. Lectures and clinical presentations by Medical School faculty. Open to OT majors; others by departmental approval.

420 Human Development Concepts (2 or 4, Fa) Biopsychosocial approach to human development; integration and effect upon acquisition of skills for the occupational role. Supervised experience in clinical observation and testing. Open only to OT majors.

440 Foundations of Occupation/Kinesiology (2, SpSm) Application of basic neuromusculoskeletal function to the performance of daily living tasks and activities; emphasis on integration of neurological knowledge with understanding of neuromuscular dysfunction. Open only to OT majors.

441 Foundations of Occupation/Neurology (2, SpSm) Application of basic neural function to the performance of daily living tasks and activities; emphasis on integration of neurological knowledge with understanding of neuromuscular dysfunction. Open only to OT majors.

452 Occupational Therapy, Theory and Practice/Physical Disabilities (4, Fa) History, philosophy, and interpretation of occupational therapy practice in physical disabilities. Study of behavior as it relates to human competency and family adaptation, occupational choice, and satisfaction. Open only to OT majors.

453 Occupational Therapy, Theory and Practice/Psychosocial Dysfunction (4, Fa) History, philosophy, and interpretation of occupational therapy practice in psychosocial dysfunction. Study of psychosocial function as it relates to core themes of intrinsic motivation, decision making, roles, temporal adaptation, skills and the environment. Open only to OT majors.

463 Occupational Therapy Skills Theory II (2, Fa) Application of occupational therapy skills to creative problem solution and task analysis in the understanding of occupation. Open only to OT majors.

464 Occupational Therapy Skills Theory III (4, Sp) Analysis of occupational therapy skills and activities in the understanding of the individual's participation in occupation. Particular emphasis will be given to the occupational tasks of supervision; and the design, management and marketing of occupational therapy services. Open only to OT majors.

465 Advanced Occupational Therapy Theory — Psychosocial (3, Sp) Selected cases from occupational therapy practice in the area of psychosocial dysfunction; special emphasis on prevention, diagnosis, treatment, management, consultation, communication, and use of community resources. Open only to OT majors. *Prerequisite:* OT 405, OT 415, OT 420, OT 463.

466 Advanced Occupational Therapy Theory — Physical Dysfunction (3, Sp) Selected cases from occupational therapy practice in the area of physical dysfunction; with emphasis on prevention, diagnosis, treatment, management, consultation, communication, and use of community resources. Open only to OT majors. *Prerequisite:* OT 405, OT 415, OT 420, OT 463.

467 Advanced Occupational Therapy Theory — Pediatrics (3, Sp) Selected cases from occupational therapy practice with children; prevention, diagnosis, treatment, management, consultation, communication, and use of community resources in practice with children. Open only to OT majors. *Prerequisite:* OT 405, OT 415, OT 420, OT 463.

468 Advanced Occupational Therapy Theory — Adolescence, Adulthood, and Aging (3, Sp) Selected cases from occupational therapy practice with adolescents, adults and aged persons; with emphasis on prevention, diagnosis, treatment, management, consultation, communication, and use of community resources with these age-related groups. Open only to OT majors. *Prerequisite:* OT 405, OT 415, OT 420, OT 463.

485 Occupational Science and Occupational Therapy (2, Sp) Implications for the direction of occupational therapy practice based on the developing knowledge base in occupational science. Open only to OT majors.

486abc Clinical Internship with Seminar (2-2-2, FaSpSm) Clinical internship to qualify for professional certification. Seminar to integrate theory with application of treatment principles for various dysfunctional conditions. Graded CR/NC. Open only to OT majors. *Prerequisite:* completion of all OT major academic requirements.

490x Directed Research (2-8, max 8, FaSp) Individual research and readings. Not available for graduate credit. *Prerequisite:* departmental approval. Open only to OT majors.

499 Special Topics (2-4, max 8, FaSpSm) Course content to be selected in occupational therapy and occupational science. *Prerequisite:* departmental approval.

500abc Clinical Problems in Occupational Therapy (2-4, 2-4, 2-4, FaSpSm) Specific applications of occupational therapy practice in varied clinical/health settings. Seminar to integrate theory with application of treatment principles for various dysfunctional conditions. Graded CR/NC.

505 Seminar in Occupational Therapy (2-4) Occupational therapy and the health care system. Open only to OT majors.

506 History of Occupational Therapy Practice (4, Fa) Critical historical review of theories and practices in occupational therapy; impact of projection of future models for practice; strategies for implementing change; historical method. Open only to OT majors.

507 Theory in a Practice Profession (4, Sp) Development of models and theories in a practice discipline through scientific thought; criteria for assessing theories; general systems theory. Open only to OT majors.

550 Occupational Behavior Model (2-4, Sp) Treatment model applicable to all age and disability categories; holistic conceptualization including family and community systems, evaluation tools, and treatment approach; case method. Open only to OT majors.

551 Adaptation and Disability (4, Sp) Social and cultural adaptation to disabilities and stigmatized medical conditions through anthropological studies of groups and individuals. Training in ethnographic methods with such populations.

553 Play and Exploratory Behavior (4, 2 years, Sp) Major conceptual, theoretical, and empirical studies of play and exploratory behavior; development and organization of play in relation to occupational behavior; research problems.

555 Seminar: Implementation of the Advocacy Model (2-4, Sp) The patient as decision-maker in chronic care; competency development through activities of daily living, leisure skills, time organization and life goal planning; action research. Open only to OT majors.

588 Research Methods (4, Fa) Descriptive, comparative, and evaluative research methods; research tools and procedures; application of general systems theory. Open only to OT majors.

590 Directed Research (1-12, FaSpSm) Research leading to the master's degree. Maximum units which may be applied to the degree to be determined by the department. Graded CR/NC. Open only to OT majors.

594abz Master's Thesis (2-2-0, FaSp) Credit on acceptance of thesis. Graded IP/CR/NC. Open only to OT majors.

599 Special Topics (2-4, max 8, FaSpSm) Recent developments in occupational therapy and occupational science. *Prerequisite:* departmental approval.



Florence Clark, professor and department chair, is a widely published scholar in the field of occupational therapy. She teaches courses in directed research and "Introduction to Occupational Therapy."

604 Temporal Adaptation: Organization and Use of Time (4, 2 years, Fa) Environmental, biological, psychological and socio-cultural influences on perceptions of and utilization of time. Implications for human adaptation.

610 Sensory Integrative Dysfunction (4, FaSpSm) Differential evaluation of sensory integrative dysfunction; theory and procedure for enhancing the processing of sensory data by children with learning and behavior disorders. Prerequisite: admission by advance application and instructor's approval only; must be certified as an occupational or physical therapist.

612 Information Processing and Occupation (4, 2 years, Fa) Phylogenesis and ontogenesis of human information processing capacity enabling engagement in occupation; components and contributions to adaptation and coping.

650 Development of Adaptive Skills (4, Fa) Critical analysis of occupation as means and product of human adaptation. Adaptive skill development from traditional and occupational science approaches. Research methods and results.

655 Work and Leisure (4, Sp) Ontogenesis and phylogenesis of work and leisure. Systems view of person/environmental interactions affecting competence and satisfaction with activity. Occupation and the need for mastery.

660abcd Research Practicum in Occupation (1-1-1-1, FaSp) Supervised research in current problems and issues in occupation. Graded CR/NC. Open only to OT majors.

790 Research (1-12) Research leading to the doctorate. Maximum units which may be applied to the degree to be determined by the department. Graded CR/NC. Open only to OT majors.

794abcdz Doctoral Dissertation (2-2-2-2-0, FaSp) Credit on acceptance of dissertation. Graded IP/CR/NC. Open only to OT majors.