

# USC Independent Health Professions at the Herman Ostrow School of Dentistry

*Ranked No. 1 by the U.S. News & World Report in its 2013 rankings, the USC Mrs. T.H. Chan Division of Occupational Science and Occupational Therapy integrates innovative research, education and clinical practice into its curriculum for all students.*

The USC Division of Biokinesiology and Physical Therapy and the USC Mrs. T.H. Chan Division of Occupational Science and Occupational Therapy are administered by the Herman Ostrow School of Dentistry of USC. Both of these divisions offer outstanding education at either the graduate or undergraduate level.

The USC Division of Biokinesiology and Physical Therapy was established in 1944. For those entering the physical therapy profession, the division offers the Doctor of Physical Therapy. For practicing physical therapists, the division offers a Master of Science. In addition, the division offers the nation's longest-standing 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 for the Doctor of Physical Therapy in an Advanced Standing program. Clinicians specializing in a specific area of practice may enter the Clinical Residency Program. The division is headquartered on the Health Sciences Campus.

The USC Chan Division 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 American Occupational Therapy Association's highest awards have been USC alumni. The division offers a professional degree program allowing students to earn a B.S. degree and, in one additional year, an M.A. in occupational therapy. These graduates are eligible to sit for the National Board for Certification in Occupational Therapy® examination. The division offers three graduate degrees: the Master of Arts, the world's first Ph.D. in Occupational Science and the professional Occupational Therapy Doctorate (OTD). The USC Chan Division of Occupational Science and Occupational Therapy master's-level professional degree program is fully accredited by the Accreditation Council for Occupational Therapy Education®, c/o Accreditation Department, American Occupational Therapy Association, Inc., 4720 Montgomery Lane, Suite 200, Bethesda, Maryland 20814-3449, (301) 652-6611 x2914, [acoteonline.org](http://acoteonline.org).

## Biokinesiology and Physical Therapy

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### Faculty

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*Professor of Clinical Physical Therapy:* Robert F. Landel, DPT, OCS, CSCS, MTC, FAPTA

*Associate Professors:* Lucinda L. Baker, Ph.D., P.T.; Nina S. Bradley, Ph.D., P.T.; Christopher Powers, Ph.D., P.T., FAPTA; George J. Salem, Ph.D.; Nicolas Schweighofer, Ph.D.

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*Assistant Professors of Research:* Christina Dieli-Conwright, Ph.D.; Beth Smith, P.T., DPT, Ph.D.

*Instructors of Clinical Physical Therapy:* Elizabeth Acreman, PT, DPT; Geoffrey Cariker, P.T., DPT; Jessica Curran, PT, DPT, OCS; Aimee Diaz, P.T., SCS, ATC; Lori Ginoza, P.T., DPT, NCS; Janelle Gilmer PT, DPT, GCS; Erin Hayden, P.T., DPT, OCS; Lydia In, MPT; Nicole Irizarry, P.T., DPT; Sean Johnson, DPT, OCS; Yasuyuki Kasayama, DPT, OCS; Kenneth Kim, P.T., DPT, CSCS, OCS; Daniel Kirages, P.T., DPT, OCS, FAAOMPT; Angela Kwan, MSP; Cherise Lathan, P.T., DPT; Valerie Matthews, P.T., DPT; Brian McNeil, P.T., DPT; Ira Movshovich P.T., DPT, NCS; Jennifer Okuno, MPT; Andrew Piraino, P.T., DPT; David Richards, P.T., DPT; Scott Russell, P.T., DPT; Don Shimabukuro, MPT; Jennifer Tanaka, P.T., DPT; Jeff Thompson O.T., DPT; Erica Sigman, DPT, OCS; Stephanie Woelfel-Dyess, P.T., MPT, CWS, FAACWS; Noriko Yamaguchi, P.T., DPT, CSCS; Maria Zibell, P.T., MPT

*Adjunct Professor:* Robert Gregor, Ph.D.

*Adjunct Associate Professors:* Joseph Godes, DPT; Ning Lan, Ph.D.; Stephen Reischl, P.T., DPT, OCS; Rizkalla Zakhary, Ph.D.

*Adjunct Assistant Professors of Clinical Physical Therapy:* Mike Andersen, P.T., DPT; Kyle F. Baldwin, P.T., DPT; Julia Burette Itamura, P.T., DPT, OCS; Lily Cabellon, M.D.; Jason Cozby, DPT, OCS; Daniel Farwell, DPT; Sean Flanagan, Ph.D., ATC, CSCS; Larry Ho, P.T., DPT, OCS; Sally Ho, P.T., DPT, OCS; John Jankoski, MPT, NCS, OCS; Covey Lazoras, DPT, NCS; Rebecca Lewthwaite, Ph.D.; Ndidiamaka Matthews, P.T., DPT, NCS; John Meyer, P.T., DPT, OCS; Elizabeth Poppert, P.T., DPT, M.S., OCS; Gary Souza, P.T., DPT, OCS

*Adjunct Instructors of Clinical Physical Therapy:* Ginelie Amormino, P.T., DPT; Andrea Austin, P.T., DPT; Liz

Bottrell, P.T., DPT; Melissa Brose, P.T., MPT; Erin Caudill, P.T., DPT, NCS; Manjiri Dahdaul, DPT; Oscar Gallardo, M.S., P.T.; Katherin Havens, Ph.D.; Julie Guthrie, PT, DPT, OCS; Julie Hershberg, P.T., DPT, NCS; Mills Limcay, P.T., DPT, OCS; Jill Masutomi Ordorica, P.T., DPT, PCS; Claire McLean, DPT, NCS; Andrew Myler, P.T., DPT, NCS; Lisa Meyer, P.T., DPT; Cassandra Sanders-Holly, P.T., DPT; Jena Van Loo, MPT; Cynthia Wederich, P.T., DPT; Sean Yu, Ph.D., Jennifer Yue, P.T., DPT

*Emeritus Professors:* Helen J. Hislop, Ph.D., Sc.D., FAPTA; Jacquelin Perry, M.D. (Orthopedics)

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

### Programs

The Division of Biokinesiology and Physical Therapy offers multiple degrees, certificates and clinical residency programs allowing graduates the opportunity to choose educational programs that will expose them to cutting-edge research and scientific advancements, in turn creating innovators in the physical therapy profession. The largest degree program is the three-year Doctor of Physical Therapy (DPT), which is offered in addition to a post professional DPT, and a post-professional DPT and Master of Public Health dual degree. The division also offers a Ph.D. in Biokinesiology, one of the nation's first Ph.D. degrees in physical therapy education, as well as a Ph.D. in Biokinesiology and Physical Therapy. The graduate curricula for the Master of Science and Doctor of Philosophy degrees are open to all qualified students who are or 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 science.

### 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 the fall semester only. The application deadline is November 1. All applicants should contact the Division 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, physics, calculus and biology. Highly recommended is course work in anatomy, physiology, histology, kinesiology, trigonometry, neuroscience, analytical geometry, exercise physiology, biochemistry and computer programming. Applicants with no background in cellular or molecular biology may be required to take PT 509 in the entry-level DPT 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 project (BKN 559 and BKN 590), and a comprehensive examination administered with the chair of the Biokinesiology Committee acting as the examination adviser.

Required courses	Units
BKN 550 Neurobehavioral Basis of Movement	4
BKN 551 Musculoskeletal and Biomechanical Basis of Movement	4
BKN 552 Physiological Basis of Voluntary Movement	4
BKN 559 Readings in Biokinesiology	1-4, max 8
BKN 590 Directed Research	1-12
PM 510L Principles of Biostatistics	4

Students must complete the three biokinesiology core courses (BKN 550, BKN 551, BKN 552) before sitting for their comprehensive examination. Substituting a course for one of the core courses may be allowed after receiving approval from the Biokinesiology Program Committee prior to the beginning of the course.

In order to fulfill the research project requirement, the following plan is suggested; however, each plan can be individualized based on the needs of the student and/or adviser:

1. Select a research professor (from the department) whose work interests them. This should be done by the end of the first year of study.
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 that is being conducted by the professor. The research paper must be completed within the semester for which BKN 590 units are being given.

See the Doctor of Philosophy in Biokinesiology section for a list of courses available to M.S. students.

### Doctor of Philosophy in Biokinesiology and Physical Therapy

The graduate program leading to the Doctor of Philosophy in Biokinesiology and Physical Therapy offers an opportunity for highly qualified students to prepare for careers in academic health care. The curriculum is designed for individuals who envision a career that combines training for physical therapy practice and scholarly research.

#### Admission Requirements

Applicants must have earned a bachelor's degree with a superior grade point average as well as Graduate Record Examinations scores. A personal interview with program faculty is required. Prerequisite course work must include: four courses in the biological sciences with labs (including human anatomy, human physiology and cell or molecular biology); one year of college physics with lab; one year of college chemistry with lab; one semester of college mathematics; two courses in psychology; one course in composition and writing; one course in literature or

history. Courses that are highly recommended include: biochemistry, calculus, kinesiology, exercise physiology, neuroscience, genetics and a cross-cultural course in sociology.

Application for admission to the Division of Biokinesiology and Physical Therapy requires submission of two sets of materials: special division application and university application forms. Students are admitted for study in the Ph.D. in Biokinesiology and Physical Therapy program beginning in the fall semester of each academic year. Both sets of applications must be submitted by December 1 of the previous year. At the time of admission to the program, the student must identify a faculty member who will serve as an adviser throughout every phase of study.

#### Degree Requirements

This degree is under the jurisdiction of the Graduate School. Refer to the Requirements for Graduation section and the Graduate School section of this catalogue for general regulations.

Years 1, 2 - required courses	Units
PM 510L Principles of Biostatistics	4
PM 511aL Data Analysis	4
PT 507 Professional Practice: Therapist Perspective	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 Professional Practice: System Perspective	2
PT 549L Clinical Exercise Physiology	4
PT 551L Therapeutic Applications of Physical Agents	2
PT 554L Analytical Anatomy	3
PT 557 Professional Practice: Patient Perspective	2
PT 566 Disorders of the Musculoskeletal System	3
PT 569 Fundamentals of Neuroscience	4
PT 571L Clinical Management of Cardiopulmonary Dysfunction	4
PT 574 Clinical Biomechanics	3
PT 581L Clinical Management of the Patient with Neurological Dysfunction	5
PT 582 Mechanics of Human Gait	2
PT 583L Clinical Electrophysiology	3
PT 600abcdez Clinical Clerkship	1-3-1-1-3-0
PT 621L Clinical Management of the Patient with Musculoskeletal Dysfunction	5
Years 3, 4, 5 — required courses	Units
BKN 790 Research	1-12
BKN 794abcdz Dissertation	2-2-2-2-0
Year 6 — required courses	Units
PT 630 Integrated Management of the Upper and Lower Extremities	3
PT 631 Integrated Management of the Axial Skeletal System and Related Movement Disorders	3
PT 632 Integrated Patient Management Seminar	5
PT 660 Advanced Clerkship with Academic Integration	5
PT 665 Advanced Clinical Clerkship	8

A minimum of 116 units is required for completion of this program.

#### Estimated Calendar of Study

##### Basic and Clinical Science Foundation Courses (Years 1, 2)

The student will enroll in all required course work and clinical experiences excluding BKN 790, BKN 794abcdz, PT 630, PT 631, PT 632, PT 660 and PT 665.

##### Qualifying Exam (Year 3)

The student will select a qualifying exam committee and begin preparing a research proposal (register for BKN 790). During this time, the student is encouraged to enroll in key elective courses, both inside and outside the division, which will enhance research proposal development. The expectation is that the student will sit for the qualifying exam and achieve doctoral candidacy at the end of year three.

##### Research and Dissertation Preparation (Years 4, 5)

The student will complete the research project and prepare a dissertation (register for BKN 790 and BKN 794). The expectation is that the student will successfully defend the dissertation by the end of year five.

##### Completion of Internship Requirement (Year 6)

The student will complete the required internships to achieve clinical competency (register for PT 630, PT 631, PT 632, PT 660 and PT 665).

### Doctor of Philosophy in Biokinesiology

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. adviser. Three letters of recommendation and duplicate transcripts must be sent to the division 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, calculus, physics and

biology. Highly recommended is course work in anatomy, physiology, histology, cell biology, exercise physiology, kinesiology, biochemistry, neuroscience, trigonometry, analytical geometry and computer programming.

Candidates should be computer literate. International applicants will be considered upon evaluation of credentials by the USC Office of Admission.

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 Procedure

A screening procedure 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 purpose of the screening procedure is to assess the progress of the Ph.D. student and to determine whether that progress is sufficient to continue in the Ph.D. program. Passing the procedure 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 550 Neurobehavioral Basis of Movement	4
BKN 551 Musculoskeletal and Biomechanical Basis of Movement	4
BKN 552 Physiological Basis of Voluntary Movement	4
BKN 790 Research	1-12
BKN 794abcdz Doctoral Dissertation	2-2-2-2-0
INTD 500* Ethics and Accountability in Biomedical Research	1
PM 510L** Principles of Biostatistics	4
PM 511aL** Data Analysis	4

\* Or equivalent graduate ethics course.

\*\* Or equivalent graduate level statistics.

Ph.D. students must complete three core courses (BKN 550, BKN 551, BKN 552) before participating in the screening procedure. Substituting a course for one of the core courses may be allowed after receiving approval from the Biokinesiology Program Committee prior to the beginning of the course.

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 qualifying exam committee.

Courses available for M.S./Ph.D. students	Units
BKN 559 Readings in Biokinesiology	1-4, max 8
BKN 563 Biomechanics	2
BKN 566 Neurobiology of Locomotion	2
BKN 567 Advanced Topics in Biomechanics	2
BKN 573ab Advanced Dissection Anatomy	2-2
BKN 575 Principles of Musculoskeletal Imaging	2
BKN 585 Systematic Research Writing	3
BKN 587ab Physiological Correlates of Therapeutic Exercise	4-4
BKN 588 Physiology and Biomechanics of Resistance Exercise	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 615 Principles of Skeletal Adaptation	4
BKN 617 Modeling the Motor System: An Introduction	2
BKN 618L Modeling the Motor System: Laboratory	1
BKN 621 Electromyography in Research and Practice	3
BKN 623 Neuroplasticity and Neural Repair	3
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

### Foreign Language Requirement

There is no foreign language requirement.

### Qualifying Exam Committee

Upon successful completion of the screening examination the student and the major adviser will select a qualifying exam committee for continuing course work and independent study. The qualifying exam committee comprises five members: three to four full-time faculty from the Division of Biokinesiology and Physical Therapy, one whom serves as committee chair, and one or two faculty members outside the division.

The qualifying exam 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 semesters. The qualifying examination concentrates on the student's ability to demonstrate knowledge in the major academic area chosen and its relation to other areas of study offered in the department. The qualifying examination has both written and oral components. A student failing any part of the examination may be allowed one additional opportunity to pass that portion at the discretion of the qualifying exam committee, within the regulations of the Graduate School governing the repetition of qualifying examinations.

### Dissertation Committee

After the qualifying examination has been passed and a dissertation topic approved, the qualifying exam 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 division. The chair of the dissertation committee will be the principal research adviser.

### 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 dissertation and the defense or final oral must have the unanimous approval of the dissertation committee. The dissertation should be complete within three years of the date the proposal is approved.

## Doctor of Physical Therapy

### Post-Professional Doctor of Physical Therapy Program

Applicants must be experienced physical therapy clinicians licensed to practice in the United States. Alternatively, foreign trained therapists must be graduates of institutions recognized by the American Physical Therapy Association. Applicants must also hold a master's degree in physical therapy or a field related to physical therapy practice. Generally, a minimum grade point average of 3.0 on a 4.0 scale as well as a minimum score of 500 on each of the three components of the Graduate Record Examinations are required. The degree requirement includes successful completion of 30-31 units as described in the following three sections:

Required courses	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, or	2
PT 624a Neurological Differential Diagnosis and Therapeutic Interventions	3
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
<b>Electives (a minimum of 9 units is required, one from each category is recommended)</b>	<b>Units</b>
<i>Anatomy</i>	
BKN 551 Musculoskeletal and Biomechanical Basis of Movement	4
BKN 563 Biomechanics	2
BKN 573ab Advanced Dissection Anatomy	2
PT 514L Musculoskeletal Anatomy	4
PT 534 Neuroanatomy	3
PT 554L Analytical Anatomy	3
<i>Neurobiology</i>	
BKN 550 Neurobehavioral Basis of Movement	4
BKN 566 Neurobiology of Locomotion	2
BKN 578 Classic Readings in Biokinesiology	2
BKN 587ab Physiological Correlates of Therapeutic Exercise	4-4
BKN 593 Behavioral Basis of Motor Control and Learning	3
PT 509 Cellular and Systems Physiology	3
PT 546 Neuropathology	3
PT 549L Clinical Exercise Physiology	4
PT 569 Fundamentals of Neuroscience	4
PT 624bL Neurological Differential Diagnosis and Therapeutic Interventions	3
<i>Exercise Physiology</i>	
BKN 552 Physiological Basis of Voluntary Movement	4
BKN 587ab Physiological Correlates of Therapeutic Exercise	4-4
BKN 588 Physiology and Biomechanics of Resistance Exercise	2
PT 509 Cellular and Systems Physiology	3
PT 549L Clinical Exercise Physiology	4
PT 571L Clinical Management of Cardiopulmonary Dysfunction	4
PT 624bL Neurological Differential Diagnosis and Therapeutic Interventions	3

### Capstone Project (PT 592)

This required project provides the student with the opportunity to synthesize the learning experiences of the DPT program. It can take the form of a case study, a learning module for students or patients, a business plan for a unique form of health care delivery, or some other

innovative concept. Work toward the completion of the project is done under the guidance of a single faculty member or a committee, depending on the magnitude and scope of the project. The primary faculty adviser will determine the unit value of the project.

A clinical residency is also available as part of the post-professional DPT program.

### Certificate in Neurologic Physical Therapy

#### Clinical Residency Program

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

#### Admission Requirements, Prerequisites and Degree Requirements

Admission requirements such as grade point average, GRE scores and P.T. licensure are the same as those for the post-professional DPT. In addition to the above listed requirements, experience 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 Division of Biokinesiology and Physical Therapy for advisement. Completion of the certificate requires satisfactory completion of a minimum of 15 units.

Required courses for certificate in neurologic physical therapy		Units
PT 595abcd	Residency in Advanced Clinical Physical Therapy	1-4 each
PT 624abL	Neurological Differential Diagnosis and Therapeutic Interventions	3-3

### Doctor of Physical Therapy and Master of Public Health

The Post Professional Doctor of Physical Therapy (DPT) and the Master of Public (MPH) dual degree program offers the opportunity for physical therapy clinicians to pursue a doctoral-level education in combination with an integrated approach to health care. The program spans four years. Students begin the first one to two years completing MPH core and elective course work in the Department of Preventive Medicine. The remaining years are devoted to program requirements in physical therapy.

#### Professional Entry-Level Doctor of Physical Therapy Program

This program comprises six semesters and two summer courses for completion of the required 115 units. Clinical experience (clerkship) is part of the curriculum during all three years. The Division of Biokinesiology and Physical Therapy awards the DPT to enrolled students who have satisfactorily completed the three-year curriculum. For successful completion, students must complete all course work with a minimum cumulative GPA of 2.75, meet all professional standards and pass all clinical clerkships.

#### Admission Requirements (Entry-Level)

Applicants are required to complete the equivalent of a U.S. baccalaureate degree 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 Admission.

#### 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 division'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 \$1,000 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 DPT is awarded to enrolled students who have completed satisfactorily the three-year curriculum of 115 credits (depending on electives chosen). The minimum number of credits required for graduation is 115. The minimum GPA required for graduation is 2.75. Clinical experience (clerkship) is part of the curriculum during all three years.

The Division 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 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 530ab	Therapeutic Exercise	2-2

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 549L	Clinical Exercise Physiology	4
PT 551L	Therapeutic Application of Physical Agents	2
PT 554L	Analytical Anatomy	3
PT	Evidence for Physical Therapist Practice	2-2-2-2
561abcde		
PT 566	Disorders of the Musculoskeletal System	3
PT 569	Fundamentals of Neuroscience	4
PT 571L	Clinical Management of Cardiopulmonary Dysfunction	4
PT 574	Clinical Biomechanics	3
PT 581L	Clinical Management of the Patient with Neurological Dysfunction	5
PT 582	Mechanics of Human Gait	2
PT 583L	Clinical Electrophysiology	3
PT	Clinical Clerkship	1-3-1-
600abcdez		1-3-0
PT 606	Clinical Imaging	2
PT 621L	Clinical Management of the Patient with Musculoskeletal Dysfunction	5
PT 630	Integrated Management of the Upper and Lower Extremities	3
PT 631	Integrated Management of the Axial Skeletal System and Related Movement Disorders	3
PT 632	Integrated Patient Management Seminar	5
PT 650	Differential Diagnosis in Physical Therapy	2
PT 660	Advanced Clerkship with Academic Integration	5
PT 665	Advanced Clinical Clerkship	8
<b>Elective courses</b>		
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 for Hand Dysfunction	2
PT 615	Management of the Complicated Patient	2
PT 618L	Seminar in Advanced Neurological Rehabilitation	2
PT 619L	Clinical Electro-physiology	2
PT 654	Physical Therapy Interventions in Pediatrics	2

### 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.*

**BKN 504 Neuromuscular Systems (3, Fa)** (Enroll in BME 504)

**BKN 550 Neurobehavioral Basis of Movement (4, Sp)** Introduction to the neurobehavioral and neurobiological basis of movement. Review of information processing, neural basis of perception/action, motor systems, and higher cognitive function and behavior. Recommended preparation: *biology and physiology*.

**BKN 551 Musculoskeletal and Biomechanical Basis of Movement (4, Fa)** Introduction to the mechanical properties of the musculoskeletal system. Review of connective tissue and muscle mechanics,

arthrology, anatomical design and statics. Laboratory dissections illustrate biomechanical concepts.

**BKN 552 Physiological Basis of Voluntary Movement (4, Sp)** Consideration of the neuromuscular and musculoskeletal physiology of voluntary movement.

**BKN 557L Functional Neuroanatomy with Lab Dissection (3, FaSpSm)** Comprehensive survey of regional neuroanatomy covered in lecture and laboratory format with dissection. In-depth consideration is given to neuroanatomical basis of sensory and motor function. Topics include neuroanatomical basis of cellular function, somatosensation, special senses, movement and distributed motor control, and homeostasis regulation.

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

**BKN 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.

**BKN 566 Neurobiology of Locomotion (2)** 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; recommended preparation: *BKN 550*.

**BKN 567 Advanced Topics in Biomechanics (2, Sp)** Advanced examination of motion-analysis techniques, applications and data interpretation. Magnetic tracking techniques, upper-extremity kinematics, energy/work/impulse concepts, intersegmental dynamics, and EMG muscle modeling are examined. Prerequisite: *BKN 563*.

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

**BKN 575 Principles of Musculoskeletal Imaging (2, Sm)** Basic principles of musculoskeletal imaging as it relates to biomechanics research. Topics include MRI physics, variable imaging parameters and selection of pulse sequences.

**BKN 578 Classic Readings in Biokinesiology (2)** A seminar course in which students read and discuss classic scientific papers that have shaped the development of the movement sciences over the past 150 years.

**BKN 585 Systematic Research Writing (3, Sm)** Development of analytical journal reading skills and proficiency in scientific writing. Lecture and tutorial format.

**BKN 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.

**BKN 588 Physiology and Biomechanics of Resistance Exercise (2, Sp)** Science of resistance-exercise prescription, adaptation, and outcome assessment. Topics include periodization, neuromuscular and connective-tissue adaptation, special populations, and biomechanical considerations.

**BKN 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.

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

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

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

**BKN 615 Principles of Skeletal Adaptation (4, 2 years, Sm)** Introduction to the integrative physiology of skeletal adaptation to mechanical loading. Emphasis on mechanical and chemical regulation of bone mass.

**BKN 617 Modeling the Motor System: An Introduction (2, 2 years, Sp)** Introduction of basic principles and models of the primate motor system. Emphasis on arm control.

**BKN 618L Modeling the Motor System: Laboratory (1, 2 years, Sp)** Introduction of computer programming and implementation of computational models in a laboratory setting.

**BKN 621 Electromyography in Research and Practice (3, 2 years, Fa)** Physiology and electrophysiology of muscular contraction, how it is collected, quantified and processed. Uses of electromyographic information for research and clinical assessments. Recommended preparation: *human anatomy, skeletal muscle physiology*.

**BKN 623 Neuroplasticity and Neural Repair (3, 2 years, Fa)** Integration of basic research on neuroplasticity and clinical research on central nervous system reorganization after brain injury. Implication for neurorecovery and rehabilitation.

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

**BKN 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.

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

## Physical Therapy (PT)

**PT 507 Professional Practice: Therapist Perspective (2, Fa)** Identification of personal values, attitudes and beliefs and their relationship to personal development into a health care provider. Emphasis on communication skills, ethics, and professional guidelines, laws and regulations.

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

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

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

**PT 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.

**PT 529 Life Span Motor Control (3, Sm)** 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.

**PT 530ab Therapeutic Exercise (a: 2, Sp; b: 2, Sm)** a: Theoretical and practical principles for evaluation of exercise need and prescription of exercise programs. Emphasis on approaches for patients with musculoskeletal deficits. (Duplicates credit in former PT 530.) b: Examination of needs analysis and prescription of exercise programs for special patient populations and assessment of current community trends in exercise and wellness.

**PT 534L Neuroanatomy (3, Fa)** 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.

**PT 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. Prerequisite: PT 509, PT 514L, PT 516, PT 521L, PT 529.

**PT 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.

**PT 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.

**PT 547 Professional Practice: System Perspective (2, Sm)** Analysis of the integration of physical therapy practice into the national health care system; administration, budgeting and reimbursement for physical therapy services.

**PT 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.

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

**PT 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.

**PT 557 Professional Practice: Patient Perspective (2, Sp)** Examination of issues related to professional-patient relationships, culture, lifestyles, ethnicity, gender and age. Emphasis on communication within a patient care model.

**PT 561abcde Evidence for Physical Therapist Practice (2-2-2-2-2) a:** Introduction to a patient-centered Evidence Based Practice model with emphasis on professional communication skills, ethics, professional guidelines, laws and regulations; b: introduction to

acquiring, appraising and integrating research evidence; c: advanced critical analysis and application of research of evidence; d: advanced integration of patient values as influenced by culture, ethnicity, lifestyles, gender, and age into patient-centered clinical decision making; e: analysis of the integration of physical therapist practice into the national health care system; administration, budgeting and reimbursement for physical therapist services.

**PT 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.

**PT 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.

**PT 571L Clinical Management of Cardiopulmonary Dysfunction (4, Fa)** Physical therapy evaluation and intervention in the care of patients with circulatory, cardiac, or pulmonary dysfunction. Lecture, case presentations, laboratory. Prerequisite: PT 521L.

**PT 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.

**PT 574 Clinical Biomechanics (3, Sp)** 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.

**PT 581L Clinical Management of the Patient with Neurological Dysfunction (5, Sp)** 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.

**PT 582 Mechanics of Human Gait (2, Fa)** 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.

**PT 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.

**PT 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.

**PT 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.

**PT 592 Capstone Project (1-6, max 6, FaSpSm)** Synthesis of knowledge gained in the pursuit of D.P.T. degree through a case study, a learning module for students or patients, a business plan for a unique form of health care delivery, or some other innovative concept. The primary faculty adviser will determine the unit value of the project.

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

**PT 600abcdez Clinical Clerkship (1-3-1-1-3-0, FaSpSm)** a: Practical experience in two- or six-week physical therapy manual skills, decision making and professional behaviors. b: Practical experience in six-week physical therapy manual skills, decision making, and professional behaviors. c: Practical experience in two-week physical therapy psychomotor skills, decision making and professional behaviors. d: Practical experience in two-week physical therapy psychomotor skills, decision making and professional behaviors. e: Practical experience in six-week physical therapy psychomotor skills, decision making and professional behaviors. Graded CR/NC.

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

**PT 606 Clinical Imaging (2, Sp)** Elements of reading roentgenographs, CAT and MRI scans for the physical therapist. Lecture, demonstration, practical experience. Open only to Biokinesiology and Physical Therapy graduate students.

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

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

**PT 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.

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

**PT 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.

**PT 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.

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

**PT 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.

**PT 624abL Neurological Differential Diagnosis and Therapeutic Interventions (3-3, FaSp)** Theoretical and practical foundations of clinical practice for specialization in neurologic physical therapy. a: Principles of neurologic differential diagnosis,

mechanisms of neurorecovery and rehabilitation of focal neurologic disorders covered. b: Emphasis on advanced skills in neurologic differential diagnosis and rehabilitation for complex neurologic disorders.

**PT 630 Integrated Management of the Upper and Lower Extremities (3, FaSp)** Advanced evaluation and management of upper and lower extremity disorders and related movement dysfunction. Prerequisite: PT 600e.

**PT 631 Integrated Patient Management of the Axial Skeletal System and Related Movement Disorders (3, FaSp)** Advanced assessment and management of axial skeletal dysfunctions and related movement disorders. Prerequisite: PT 600e.

**PT 632 Integrated Patient Management Seminar (5, FaSp)** Integration of physical therapy management of complicated patients with concurrent musculoskeletal, cardiopulmonary and/or neurologic disorders. Prerequisite: PT 571L, PT 581L, PT 621L.

**PT 642abc Evidence Based Practice (2-2-2, a: Sm, b: Fa, c: Sp)** a: Practical considerations of evidence-based practice including patient interviews and search methods. b: Development of critical analysis skills of evidence to enhance critical thinking. c: Focus on evidence-based decision making using patient perspectives to effect optimal function outcomes.

**PT 650 Differential Diagnosis in Physical Therapy (2, Sm)** Consideration of principle of differential diagnosis with emphasis on mastering this skill. Open only to Biokinesiology and Physical Therapy graduate students. Recommended preparation: *completion of years 1 and 2.*

**PT 654 Physical Therapy Intervention in Pediatrics (2, Sm)** Physical therapy management of commonly encountered pediatric diagnoses. Seminar, clinical laboratory. Open to students enrolled in physical therapy degree programs only.

**PT 660 Advanced Clerkship with Academic Integration (5, FaSp)** A 16-week clerkship consisting of a minimum of 24 hours per week in a part-time setting. Emphasis on the care of orthopedic, neurologic, pediatric or complicated medical conditions. Graded CR/NC. Prerequisite: PT 600e.

**PT 665 Advanced Clinical Clerkship (8, FaSp) A** 16-week clerkship consisting of a minimum of 36 hours per week in a full-time setting. Emphasis on care of orthopedic, neurologic, pediatric or complicated medical conditions. Graded CR/NC. Prerequisite: PT 600e.

## USC Chan Division of Occupational Science and Occupational Therapy

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*Mrs. T.H. Chan Professorship in Occupational Science and Occupational Therapy, Associate Dean and Chair:* Florence A. Clark, Ph.D., OTR/L, FAOTA

*Associate Chair:* Ann Neville-Jan, Ph.D., OTR/L, FAOTA

*Professors:* Sharon Cermak, Ed.D.; OTR/L, FAOTA; Florence A. Clark, Ph.D., OTR/L, FAOTA; Gelya Frank, Ph.D.; Mary Lawlor, Sc.D., OTR/L, FAOTA; Cheryl Mattingly, Ph.D.; William Morgan, Ph.D.

*Associate Professors:* Lisa Aziz-Zadeh, Ph.D.; Ann Neville-Jan, Ph.D., OTR/L, FAOTA

*Assistant Professors:* Natalie Leland, Ph.D., OTR/L, BCG (Gerontology), FAOTA; Elizabeth Pyatak, Ph.D., OTR/L; Shawn Roll, Ph.D., OTR/L, CWCE, RMSK; Olga Solomon, Ph.D.; Barbara Thompson, Ph.D.

*Professor of Clinical Occupational Therapy:* Linda Fazio, Ph.D., OTR/L, FAOTA

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*Instructors of Clinical Occupational Therapy:* Aimee Aguilon, OTR/L; Mahjabeen Aftab, OTR/L; Catherine Crowley, OTD, OTR/L; Kim Eggleston, M.A., OTR/L; Kathleen Gross, OTD, OTR/L; Heather Kitching, OTD, OTR/L; Stephanie Mielke, OTD, OTR/L; Tessa Milman, OTD, OTR/L; Scott Orr, M.A., OTR/L; Whitney Pike, B.S., OTR/L; Lindsay Pugh, M.S., CCC-SLP; Janice Rocker, M.S., OTD, OTR/L; Carey Sokol, M.A., OTR/L; Joan Vartanian, B.S., OTR/L

*Research Professor:* Michael Carlson, Ph.D.

*Research Adjunct Professors:* Barbara Gage, Ph.D.; Susan Lipton Garber, Ph.D.

*Research Associate Professor:* Sarah Jeanne Salvy, Ph.D.

*Research Assistant Professors:* Stefanie Bodison, OTD, OTR/L; Jesus Diaz, OTD, OTR/L; Stacey Schepens, Ph.D., OTR/L; Derek Snyder, Ph.D.; Cheryl Vigen, Ph.D.

*Adjunct Assistant Professor of Clinical Occupational Therapy:* Susanne Roley, OTD, OTR/L

*Adjunct Instructors of Clinical Occupational Therapy:* Susan Bowles, OTD, OTR/L; Cynthia Burt, M.A., OTR/L; Remy Chu, B.S., OTR/L; Lisa Deshaies, M.A., OTR/L; Heidi Dombish, M.S., OTR/L; Colette Nagami, OTR/L, HTC; Anna Nguyen, OTD, OTR/L; Karen Park, OTD, OTR/L; Tammy Richmond, M.A., OTR/L; Pamela Roberts, M.A., OTR/L, FAOTA; Joan Surfus, M.A., OTR/L

*Distinguished Emeritus Professor:* Elizabeth J. Yerxa, Ed.D., LHD (Hon.), FAOTA

*Emeritus Professor:* Ruth Zemke, Ph.D., FAOTA

## Degrees Offered

The USC Mrs. T.H. Chan Division of Occupational Science and Occupational Therapy offers a Bachelor of Science in Occupational Therapy, a minor in Occupational Science, and a Master of Arts in Occupational Therapy. The Master of Arts in Occupational Therapy is offered for students continuing their education following their undergraduate degree in occupational therapy, for students whose first degree is in another field and also for certified occupational therapists seeking a post-professional degree. The division also offers the Occupational Therapy Doctorate (OTD) and the Ph.D. in Occupational Science. The USC Chan Division of Occupational Science and Occupational Therapy master's-level professional degree program is fully accredited by the Accreditation Council for Occupational Therapy Education®, c/o Accreditation Department, American Occupational Therapy Association, Inc., 4720 Montgomery Lane, Suite 200, Bethesda, Maryland 20814-3449, (301) 652-6611 x2914, [acoteonline.org](http://acoteonline.org).

Entry into occupational therapy practice is at the graduate degree level only. In order to practice, students in the bachelor's program must earn an M.A. degree in Occupational Therapy, successfully complete a minimum of 24 full-time weeks of clinical fieldwork, sit for the National Board for Certification in Occupational Therapy® (NBCOT) exam and apply for a license (in most states including California).

## Pi Theta Epsilon

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

The Alpha Eta Chapter of Pi Theta Epsilon (PTE) at the University of Southern California selects candidates early in the spring semester of each year based on National PTE guidelines related to academic standing and students' potential for leadership in the profession.

## Bachelor of Science

The undergraduate curriculum leads to the Bachelor of Science with a major in Occupational Therapy. Although professional study begins during the junior year, most students apply to the major as incoming freshmen. Students may apply any time prior to May 15 of the sophomore year. Students majoring in occupational therapy can earn a USC master's degree in occupational therapy with just one additional year instead of the traditional two years, substantially reducing their overall cost of education and preparing them sooner for the National Board Certification in Occupational Therapy® (NBCOT) examination. Successful completion of the Master of Arts degree and successful completion of a minimum of 24 full-time weeks of clinical fieldwork are required for eligibility to sit for the NBCOT examination. Certification from the board and licensure (most states) are required to practice as an occupational therapist. (See here for a description of the M.A. degree program.)

## Admission Criteria and Application Procedures for Incoming Freshmen

See the Undergraduate Admission section of this catalogue for admission criteria and application procedures for the university.

## Admission Criteria for Current USC Students

After admission to USC, students wishing to add or change their major to occupational therapy should contact the division. Requirements for admission are:

1. an autobiographical statement that demonstrates strong potential to be an occupational therapist as well as an understanding of occupational therapy as a career choice
2. a cumulative grade point average of 3.0 or higher in undergraduate course work
3. a plan for completion of all USC Dornsife College of Letters, Arts and Sciences general education requirements and foreign language requirements by the beginning of the senior year
4. a plan for completion of pre-professional course work by specified deadlines

## Application Procedures for Current USC Students

Applications will be reviewed after the application deadline, and once the following materials have been received by the USC Chan Division of Occupational Science and Occupational Therapy:

1. Completed division application form
2. Current copy of the student's STARS report
3. A personal statement (600 words or less) in response to the following prompt: Please describe a significant experience, achievement or personal characteristic that demonstrates why you would be an effective occupational therapist. Please include your understanding of occupational therapy in your essay.
4. Three letters of recommendation from professors, employers or other professionals, not related to the applicant, sent directly to the division or delivered in a sealed envelope. One letter should be from a professor.

## Deadlines for Current USC Students

Sophomores may apply by May 15 to apply for admission to begin the program in the fall of their junior year. The junior year entry option has very limited admissions availability each year and available spaces are not guaranteed.

## Program Requirements

A total of 128 units is required for the Bachelor of Science degree. An occupational therapy major cannot count any 300-level OT course toward the B.S. degree.

## General Education Requirements

The university's general education program provides a coherent, integrated introduction to the breadth of knowledge needed to become a well-educated person. This program requires six courses in different categories, plus writing, diversity and foreign language requirements, which together comprise the USC Core. See The USC Core and the General Education Program for more information.

## Required Pre-Professional Courses

We recommend that you meet with an admissions counselor within the division in order to determine course work that can be taken at USC or could be transferred and substituted for required course work. Before taking the advanced professional courses you must have completed the pre-professional required courses:

- Within the last five years

- With a minimum GPA of 3.0 (pass/fail or grades below a C are not accepted)
  - From an accredited junior college, four-year college or university
  - Either in a classroom setting or online; however, anatomy must be completed in a classroom setting (refer to Course Work Taken Elsewhere)
  - For a total of three or four semester units each (with the exception of medical terminology, which may be 1 or 2 units)
- Required Pre-Professional Courses (USC course numbers are noted)
- Students who wish to transfer credit for courses taken at another institution must gain university approval:

PRE-PROFESSIONAL COURSES		UNITS
OT 200	Medical Terminology for Health Professions	1
SOCI 200	Introduction to Sociology, or	
ANTH 201	Introduction to Social Anthropology	4
OT 251X	Across the Lifespan: Occupations, Health and Disability	4
OT 260	Human Functional Anatomy for the Occupational Therapist (with laboratory), or	
HBIO 301L	Human Anatomy (with laboratory)	3-4
OT 261	Human Physiology for Occupational Therapists, or	
BISC 307L	General Physiology	3-4
MATH 114	Foundations of Statistics, and	4
PSYC 274L	Statistics I, or	4
HP 340L	Health Behavior Statistical Methods, and	4
HP 350L	Health Behavior Research Methods, or	4
BUAD 310	Applied Business Statistics	4
PSYC 360	Abnormal Psychology	4
A course in Gerontology or adult development (recommended but not required)		

Four-week intensive courses are offered by the division in human anatomy (OT 260) and human physiology (OT 261) from mid-May to mid-June (just prior to the start of summer professional courses) for those students who have been unable to complete those courses earlier. These courses are also offered fall and spring semesters.

Students may take OT 405L, OT 406L, OT 440L and OT 441L in the junior year, after having completed Human Anatomy and Lifespan Development. Human Physiology must be completed by fall of the junior year. The remaining pre-professional courses must be completed by the start of the senior year.

### Required Professional Courses

Enrollment in professional occupational therapy courses is limited to junior and senior occupational therapy majors only.

REQUIRED PROFESSIONAL COURSES		UNITS
OT 405	Foundations: Occupation	2
OT 406L	Foundations: Creativity, Craft and Activity Analysis	2
OT 440L	Foundations: Kinesiology	2
OT 441L	Foundations: Neuroscience	2

Two of the following: OT 501L Practice Immersion: Adult Physical Rehabilitation (8), OT 502L Practice Immersion: Mental Health (8), or OT 503L Practice Immersion: Pediatrics (8) and

OT 511	Therapeutic Use of Self	2
OT 515	Neuroscience of Behavior	4

OT 518	Quantitative Research for Evidence-Based Practice	4
OT 521	Clinical Reasoning	3
OT 523	Communication Skills for Effective Practice	3
OT 525	Qualitative Research for Evidence-Based Practice	4

### Scholastic Standards

Undergraduate occupational therapy students must maintain a GPA of at least 3.0 (A = 4.0) in all required OT courses and successfully complete the Graduate Record Examinations in order to continue into the master's (M.A.) program. If an undergraduate student's OT grade point average (GPA) falls below 3.0, or if the cumulative undergraduate GPA falls below 3.0 at the end of the fall semester of the senior year, continuance is not assured.

### Advising

Advisement is available through the division.

### Minor in Occupational Science

The division offers a minor in the dynamic discipline of occupational science. It is one of a select few programs in the world that offers undergraduates the opportunity to explore the fields of occupational science and occupational therapy.

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.

The minor in occupational science requires a total of 20 units: a gateway course (OT 250) for 4 units plus 16 units of upper-division courses selected from 11 courses. It is open to all majors at USC. An occupational therapy major cannot count any 300-level OT course toward the B.S. degree.

Lower Division: Gateway course required		Units
OT 250	Introduction to Occupational Science and Occupational Therapy	4
Upper Division: 16 units		Units
OT 300	Occupational Expressions of Diverse Identities and Lifestyles	4
OT 310	Creativity Workshop	2
OT 312	Creating a Sustainable Lifestyle	2
OT 320	The Nature of Human Occupation: Form, Function, and Meaning	4
OT 325	The Brain: Mind, Body and Self	4
OT 330	Perspectives on the Daily Life of Families	4
OT 333	Sports Ethics	4
OT 350	Disability, Occupations, and the Health Care System	4
OT 355	Occupational Reconstructions and Social Transformations	2
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

### Master of Arts

The Master of Arts program is open to students with or without an undergraduate degree in occupational therapy. Students without a prior degree in occupational therapy take both the foundation courses and the advanced courses listed below. Students with a degree in occupational therapy may apply for Advanced Standing, reducing the units required for the degree from 80 units to 32 units (or 76 units to 28 units for the thesis option) and may choose between on campus or online format. All students must complete either the Thesis or Comprehensive Exam Option.

### Admission Requirements

Applicants must have a bachelor's degree from an accredited college or university; a minimum grade point average of 3.0 (A = 4.0); a minimum score of 153 on the verbal section, 144 on the quantitative section and a 3.5 on the analytical writing section of the Graduate Record Examinations taken within five years of enrollment; three letters of recommendation and an autobiographical statement of purpose. A satisfactory score on the TOEFL or IELTS within two years of enrollment is a requirement for most international students.

Those with a baccalaureate degree who also have graduated from a World Federation of Occupational Therapy (WFOT) approved program in occupational therapy may apply for Advanced Standing.

Those with a baccalaureate degree in a field other than occupational therapy also must have completed all of the following prerequisites:

- Within five years of enrollment
- Prior to the start of the program with a minimum GPA of 3.0 (pass/fail or grades below a C are not accepted)
- From an accredited junior college, college or university
- Either in a classroom setting or online; however anatomy must be completed in a classroom setting
- With each course totaling three or four semester units (with exception of medical terminology which may be 1 or 2 units) as follows (course numbers refer to USC courses, but prerequisites can be taken at any accredited college or university):

PREREQUISITES		UNITS
OT 200	Medical Terminology for Health Professions	1
SOCI 200	Introduction to Sociology, or	
ANTH 201	Introduction to Social Anthropology	4
HBIO 301L*	Human Anatomy (with laboratory)	4
OT 261*	Human Physiology for Occupational Therapists, or	
BISC 307L	General Physiology	3-4
OT 251	Across the Lifespan: Occupations, Health, and Disability	4
OT 260	Human Functional Anatomy for the Occupational Therapist (with laboratory)	3
MATH 114	Foundations of Statistics, and	4
PSYC 274L	Statistics I, or	
HP 340L	Health Behavior Statistical Methods, and	4
HP 350L	Health Behavior Research Methods, or	
BUAD 310	Applied Business Statistics	4
PSYC 360	Abnormal Psychology	4
A course in Gerontology or adult development (recommended but not required)		

\* If anatomy and physiology are combined, students must



take two sequential semesters with a laboratory each semester (6-8 units).

Four-week intensive courses are offered by the division in human anatomy (OT 260) and human physiology (OT 261) from mid-May to mid-June (just prior to the start of summer professional courses) for those students who have been unable to complete those courses earlier. These courses are also offered fall and spring semesters.

### Application Procedures

For those with a baccalaureate degree in occupational therapy: applications are accepted at any time, preferably by February 15 for fall admission.

For those with a baccalaureate degree in a field other than occupational therapy: applications for early decision are due by November 30; all other applications are due February 15.

Applications received after the February 15 deadline are considered on a space-available basis.

Application materials include: 1) USC Online Graduate Application with Division Supplemental Application; 2) OTCAS online application; 3) three letters of recommendation; 4) transcripts from all colleges/universities attended; 5) results of the aptitude test of the Graduate Record Examinations; and 6) TOEFL or IELTS scores if required. A personal interview may be requested. Please see the division Website for the most up-to-date application procedures.

### International Students

Students educated outside the United States must have their credentials evaluated by the Office of Admission before application to the division can be reviewed. See the Admission section of this catalogue. International students must demonstrate competency in English, as measured by the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS).

### Degree Requirements

The M.A. degree is under the jurisdiction of the USC Graduate School. Students should also refer to the Graduate School section of this catalogue 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 two-thirds of units applied to the degree must be at the 500 level or higher.

Students without a prior degree in occupational therapy take both the foundation courses and the advanced courses listed below. OT 405, OT 406, OT 440 and OT 441 are foundational courses that students are required to pass before they may advance to practice immersion and thread courses in the professional program. Students must complete all subsequent courses in the professional program on a full-time basis and in sequence, except for students requiring disability accommodations.

Students with a degree in occupational therapy may apply for Advanced Standing, reducing the units required for the degree from 80 units to 32 units (or from 76 units to 28 units for the thesis option) and may choose between on campus or online format. All students must complete either the Thesis or Comprehensive Exam Option.

### Thesis Option

In addition to the required courses, 4 units of electives at 500 level or above, and 4 units of OT 594ab Master's

Thesis are required. Acceptance of the thesis by the master's committee and the university completes the degree.

### Comprehensive Examination Option

In addition to the required courses, 4 units of electives and 8 units of occupational therapy electives are required. All electives must be 500 level or above. Successful performance on a written comprehensive examination administered on campus each fall and spring semester completes the degree.

REQUIRED COURSES		UNITS
<i>Foundation Core Courses</i>		
OT 405	Foundations: Occupation	2
OT 406L	Foundations: Creativity, Craft and Activity Analysis	2
OT 440L	Foundations: Kinesiology	2
OT 441L	Foundations: Neuroscience	2
OT 501L	Practice Immersion: Adult Physical Rehabilitation	8
OT 502L	Practice Immersion: Mental Health	8
OT 503L	Practice Immersion: Pediatrics	8
OT 511	Therapeutic Use of Self	2
OT 521	Clinical Reasoning	3
OT 523	Communication Skills for Effective Practice	3
OT 537	Occupation-Centered Programs for the Community	4
OT 586	Clinical Internship with Seminar	4
<i>Advanced Core Courses (Required for Advanced Standing Students)</i>		
OT 515	Neuroscience of Behavior	4
OT 518	Quantitative Research for Evidence-Based Practice, or	
OT 581	Quantitative Research for the Practicing Clinician	4
OT 525	Qualitative Research for Evidence-Based Practice	4
OT 534	Health Promotion and Wellness	2
OT 538	Current Issues in Practice: Adulthood and Aging	2
OT 540	Leadership Capstone	2
OT 545	Advanced Seminar in Occupational Science	2

### Degree Requirements for Online MA

The degree requirements for the Online MA are the same as the resident program with the exception of the electives. For the Thesis Option, students must take one of the following electives: OT 500ab; OT 564; or OT 583 as well as 4 units of OT 594ab. For the Comprehensive Exam Option, students must take all three elective courses.

OT 500ab	Clinical Problems in Occupational Therapy	4
OT 515	Neuroscience of Behavior	4
OT 518	Quantitative Research for Evidence-Based Practice, or	
OT 581	Quantitative Research for the Practicing Clinician	4
OT 525	Qualitative Research for Evidence-Based Practice	4
OT 534	Health Promotion and Wellness	2
OT 538	Current Issues in Practice: Adulthood and Aging	2
OT 540	Leadership Capstone	2
OT 545	Advanced Seminar in Occupational Science	2
OT 564	Sensory Integration	4
OT 583	Lifestyle Redesign	4

## Doctor of Occupational Therapy

The Occupational Therapy Doctorate (OTD) is a post-professional degree program that provides graduates with advanced knowledge and skills in one of four leadership concentrations: 1) advanced clinical practice; 2) policy and administrative leadership; 3) educational leadership; and 4) research expertise. OTD students graduate from the program with a strong foundation in occupational science as well as in-depth mentored residency experience. The OTD prepares graduates to secure positions as expert clinicians in specialty or emerging practice areas, as administrative leaders within health care organizations, as non-tenure track faculty in institutions of higher education, and as contributors to clinical research teams.

### Admission Requirements

Applicants for admission to the OTD program are expected to have at least a baccalaureate degree from an accredited college or university and must be certified or licensed as an occupational therapist or be eligible to sit for the National Board for Certification in Occupational Therapy® (NBCOT) examination at time of matriculation. Domestic students not certified upon matriculation must pass the NBCOT examination by the end of the first semester of the program to maintain enrollment. At the discretion of the OTD director, some international students may not be required to obtain NBCOT certification. A minimum GPA of 3.0 (A = 4.0) and a minimum score of 153 on the Verbal section, a minimum score of 144 on the Quantitative section, and a minimum of 3.5 on the Analytical Writing section of the Graduate Record Examination (GRE) must be achieved within 5 years of planned enrollment. Applicants must have earned a minimum cumulative 3.0 GPA in the 400- and 500-level required courses. At least three letters of reference, an autobiographical statement of purpose and a current resume are required. Applicants' leadership potential, previous academic record, clinical experiences and professional accomplishments will also be considered.

### International Students

Students educated outside the United States must have graduated from a program approved by the World Federation of Occupational Therapists (WFOT). USC maintains additional admissions requirements for international students (see the Admission section of this catalogue), including English language competence as measured by the Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS) examination.

### Application Procedures

Applications are accepted on a continuous basis. For consideration for fall semester admission, applications must be received by October 15 for maximum funding consideration. Applications received after October 15 will be considered on a space-available basis. Application requirements include: 1) USC Online Graduate Application; 2) USC Chan Division of Occupational Science and Occupational Therapy online supplemental application for graduate admission; 3) three letters of reference; 4) autobiographical statement of purpose; 5) transcripts from all colleges/universities attended; and 6) GRE General Test scores.

### Degree Requirements

Satisfactory completion of 60 units beyond the baccalaureate degree is required. Students with a Master's degree in Occupational Therapy may apply for Advanced Standing, which requires 36 units beyond the first graduate degree. These students do not take the 24 units of foundation courses listed below. If not admitted with advanced standing, a student may receive partial

credit for course work taken for a previous graduate degree.

The degree is awarded under the jurisdiction of the Graduate School. Refer to the Requirements for Graduation section and the Graduate School section of this catalogue, for general regulations. All courses applied toward the degree must be accepted by the USC Graduate School.

### Course Requirements

Required occupational therapy foundation courses (24 units required)		Units
OT 515	Neuroscience of Behavior	4
OT 518	Quantitative Research for Evidence-Based Practice, or	
OT 581	Quantitative Research for the Practicing Clinician	4
OT 525	Qualitative Research for Evidence-Based Practice	4
OT 534	Health Promotion and Wellness	2
OT 538	Current Issues in Practice: Adulthood and Aging	2
OT 540	Leadership Capstone	2
OT 545	Advanced Seminar in Occupational Science	2
OT 500 level Electives		4
Required occupational science advanced courses (8 units required)		Units
OT 620	Current Issues in Occupational Science and Occupational Therapy	4
OT 621	Occupational Therapy Leadership: Contemporary Issues	4

### Elective Courses (4 units required)

Students will complete a minimum of 4 course units at the 500-level or higher selected from courses within or outside the USC Chan Division of Occupational Science and Occupational Therapy.

### Residency Requirement (24 units required)

Students will complete 24 units of OT 686 residency. The residency ensures that graduates of the OTD program demonstrate competence in one of the following leadership concentrations: 1) advanced clinical practice; 2) clinical research; 3) policy and administration; and 4) pedagogy.

At least 20 units applied toward the OTD must be successfully completed before enrolling in OT 686 unless advanced standing has been granted. Students may complete their residency over three consecutive semesters (6 units, 6 units and 12 units) or over four consecutive semesters. It is highly recommended that one semester of OT 686 be enrolled full-time (12 units without any other simultaneous course enrollment). Full-time residency ensures the opportunity for full immersion in residency. Faculty must approve each student's residency plan prior to enrollment. OTD residency provides students the opportunity for mentorship by experts in their OTD leadership concentration (e.g., a master clinician, a world-class occupational science researcher, a leader in professional policy or administration, or a faculty member with at least three years of academic experience).

### Portfolio Requirement

In the final semester of enrollment, each student will submit a portfolio demonstrating competence in his or her chosen leadership concentration. The final portfolio will include documentation of both written and oral presentation skills and expertise as designated in the residency plan.

### Clinical Experience Criterion

If the student has less than three years of clinical experience as a registered and/or licensed occupational therapist at time of admission, he or she may be required to complete at least 8 units of clinical occupational therapy courses, which may include:

OT 500abc	Clinical Problems in Occupational Therapy	2-4 each
OT 560	Contemporary Issues in School-Based Practice	4
OT 564	Sensory Integration	4
OT 572	Ergonomics	4
OT 574	Enhancing Motor Control for Occupation	4
OT 583	Lifestyle Redesign	4
OT 590	Directed Research	1-12
OT 610	Sensory Integrative Dysfunction	4

### 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 interrelationship 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 156 on the Verbal section and a minimum score of 146 on the Quantitative section of the Graduate Record Examination (GRE) within 5 years of planned enrollment. At least three academic 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) or International English Language Testing System (IELTS) examination.

### Degree Requirements

**This degree is awarded under the jurisdiction of the Graduate School. Refer to the Requirements for Graduation section and the Graduate School section of this catalogue 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 CORE COURSES	UNITS	
OT 640	Conceptual Foundations of	4

Occupational Science		
OT 641	The Nature of Occupation	4
OT 660	Research Practicum (2 units — six semesters)	12
REQUIRED CORE ELECTIVES (SELECT 5)		
OT 642	Therapeutic Uses of Self: Psychodynamic Perspectives	4
OT 643	Meaningful Engagement in Everyday Life	4
OT 644	Foundations of Research on Activity and Health	4
OT 645	Narrative, Healing and the Culture of Biomedicine	4
OT 646	Intersections of Occupational Science and Human Development	4
OT 653	Play and Occupation	4
OT 655	Work and Leisure	4

Forty units of OT core courses must be completed; 20 of those units include the required courses OT 640 (4 units), OT 641 (4 units) and OT 660 (12 units). The remaining 20 units are to be selected from the other OT 600-level classes.

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 a minimum 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 2 units of OT 660 Research Practicum in Occupation per semester for six consecutive semesters, for a total of 12 units. Students are required to begin enrolling in OT 660 in their first semester of doctoral 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.

### Screening Procedures

Passing the screening 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.

### 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 4 units (2 units in each of two consecutive semesters) is required.

### Summary of All Course Requirements

Required core courses are OT 640 (4), OT 641 (4), OT 660 (12) for a total of 20 units.

Required electives are five 600-level OT courses for a total of 20 units.

Cognate courses are a minimum total of 12 units.

Dissertation requires 2 units per semester for at least two semesters for a minimum total of 4 units.

Additional 4 units can include 4 further units of dissertation or cognate.

Total: 60 units

### 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 qualifying exam committee, in either qualitative or quantitative research techniques through participation in course work and the research practicum.

### Qualifying Exam Committee

The qualifying exam committee is composed of five faculty members. Three members of the committee must be regular faculty from the USC Chan Division of Occupational Science and Occupational Therapy. One member must be from outside the division. Complete regulations for establishing a qualifying exam 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 qualifying exam committee. Refer to the Graduate School section of the catalogue for additional information about the qualifying exam.

### Dissertation Committee

The dissertation committee is composed of at least three faculty members. The chair of the committee and at least one additional member of the committee must be regular faculty from the USC Chan Division of Occupational Science and Occupational Therapy. One member must be from outside the division. Complete regulations for establishing a dissertation committee are found in the Graduate School section of this catalogue.

### Dissertation

Doctoral students must submit a dissertation based on students' original research 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, the manuscript is approved 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.

### Additional Information

Further information about the baccalaureate, master's and doctoral programs can be obtained by writing or calling the USC Mrs. T.H. Chan Division of Occupational Science and Occupational Therapy, 1540 Alcazar Street (CHP 133), Los Angeles, CA 90089-9003; (323) 442-2850, toll free (866) 385-4250, or by sending email to [info@chan.usc.edu](mailto:info@chan.usc.edu). Information regarding the USC

Division of Occupational Science and Occupational Therapy is available at [chan.usc.edu](http://chan.usc.edu).

## 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.*

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

**OT 200 Medical Terminology for Health Professions (1)** Foundation of medical terminology and hospital abbreviations useful for practice in health care.

**OT 220 Lifestyle Design: Introduction to Occupational Therapy (2, FaSp)** Introduction to theoretical concepts concerning the relationship of engagement in activities (occupations) to health and well being. Application of these perspectives to students' own lives.

**OT 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.

**OT 251x Across the Lifespan: Occupations, Health and Disability (4, FaSp)** *Exploration of the transformative power of occupation throughout the lifespan for all individuals.*

**OT 260 Human Functional Anatomy for the Occupational Therapist (3, Sm)** An anatomical survey of the human musculoskeletal, nervous, cardiovascular, respiratory, digestive and urinary system. Recommended preparation: *introductory undergraduate course in biology.*

**OT 261 Human Physiology for Occupational Therapists (3, FaSp)** Provides a general overview of human physiology with special emphasis on physiologic systems supporting internal homeostatic mechanisms and human motion applicable for occupational therapists. Open only to OT majors. Recommended preparation: *undergraduate biology course.*

**OT 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.

**OT 310 Creativity Workshop (2, FaSpSm)** Theories and practice of the creative process in varied media, genres and occupations. Explores creativity in the arts, sciences, professions, evolution, daily life, and culture.

**OT 312 Creating a Sustainable Lifestyle (2)** Scientists and policymakers advocate lifestyle changes as crucial to solving the environmental crisis. Investigation into the development of habits that promote environmental sustainability and personal wellbeing.

**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.

**OT 325 The Brain: Mind, Body, and Self (4, FaSpSm)** Exploration of neuroscience as it impacts everyday living, from the fundamentals of neurons and synapses, to the neural basis of language, empathy, and social interaction.

**OT 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.

**OT 333 Sports Ethics (4, FaSp)** Critically examines ethical issues central to the world of sports that range from matters of fair play and cheating to performance-enhancing drugs and gene-doping.

**OT 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.

**OT 355x Occupational Reconstructions and Social Transformations (2, FaSp)** The use of occupations – meaningful, purposeful activities – to restore identity, agency, health, well-being, skills, and political power to populations in problematic situations, such as wars and natural disasters.

**OT 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.

**OT 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.

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

**OT 405 Foundations: Occupation (2, FaSm)** Introduction to basic tenets of occupational therapy history and practice, the profession's language, and foundations of occupational science; incorporates experience and self-analysis of occupation. Open only to upper division and master's level Occupational Therapy majors.

**OT 406L Foundations: Creativity, Craft and Activity Analysis (2, FaSm)** Exploration of craftsmanship in both historical and contemporary contexts; engagement in the craft experience to encourage creativity and to develop proficiency in analysis of performance. Open only to upper division, master's and professional OT majors.

**OT 440L Foundations: Kinesiology (2, FaSpSm)** Review of joint and muscle structure and function; application of basic biomechanical, neuromuscular and musculoskeletal principles to the analysis of everyday activities and therapeutic interventions. Open only to upper division and master's occupational therapy majors.

**OT 441L Foundations: Neuroscience (2, FaSpSm)** Application of basic neural function to the analysis of daily living tasks and activities; review of pathological conditions that interfere with performance in occupation. Open only to upper division and master's occupational therapy majors.

**OT 490x Directed Research (1-8, max 12, FaSp)** Individual research and readings. Not available for graduate credit. Open only to OT majors.

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

**OT 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 intervention principles for various populations. Graded CR/NC.

**OT 501L Practice Immersion: Adult Physical Rehabilitation (8, FaSp)** Scientific and theoretical underpinnings and knowledge and skills necessary for occupational therapy evaluation and intervention in adult rehabilitation and geriatrics; incorporates related Level I Fieldwork. (Duplicates credit in former OT 401.) Open only to Occupational Therapy majors.

**OT 502L Practice Immersion: Mental Health (8, FaSp)** Scientific and theoretical underpinnings and knowledge and skills necessary for occupational therapy evaluation and intervention in mental health practice; incorporates related Level I Fieldwork. (Duplicates credit in former OT 402.) Open only to Occupational Therapy majors.

**OT 503L Practice Immersion: Pediatrics (8, FaSp)** Scientific and theoretical underpinnings and knowledge and skills necessary for occupational therapy evaluation and intervention in pediatrics; incorporates related Level I Fieldwork. (Duplicates credit in former OT 403.) Open only to Occupational Therapy majors.

**OT 511 Therapeutic Use of Self (2, Fa)**  
Exploration of efficacy, therapeutic use of self, empathy and mindfulness; development of self-awareness to support the art, craft and skill of effective therapeutic relationships. (Duplicates credit in former OT 410.) Open only to Occupational Therapy majors.

**OT 515 Neuroscience of Behavior (4, Fa)**  
Foundation for understanding neural functions involved in typical/atypical behaviors; review of neural circuitry, experimental methods, basic behavioral systems, higher order cognitive functions and associated disorders. (Duplicates credit in former OT 451.) Open only to Occupational Therapy majors.

**OT 518 Quantitative Research for Evidence-Based Practice (4, Fa)** Traditions and methods of quantitative research; emphasis on formulation of clear clinical questions; finding, evaluating, and applying evidence to a clinical problem; includes journal club. (Duplicates credit in former OT 480.) Open only to Occupational Therapy majors.

**OT 521 Clinical Reasoning (3, Sp)** Dynamic look at creation and application of professional knowledge and expertise; examines interrelationship between theory and practice; incorporates narrative and illness experiences in clinical reasoning. (Duplicates credit in former OT 411.) Open only to Occupational Therapy majors.

**OT 523 Communication Skills for Effective Practice (3, Fa)** Principles of written, verbal and non-verbal communication with professionals, clients and families, from a personal and professional perspective; group interventions; interview skills; advocacy as communication. (Duplicates credit in former OT 430.) Open only to Occupational Therapy majors.

**OT 525 Qualitative Research for Evidence-Based Practice (4, Sp)** Traditions and methods of qualitative research; development of skills for research design, implementation and dissemination; critique of qualitative research for evidence-based practice and occupational science. (Duplicates credit in former OT 470.) Open only to Occupational Therapy majors.

**OT 534 Health Promotion and Wellness (2, Fa)**  
Examination of relationship of occupation to health, well-being, participation; critical thinking about lifestyle factors influencing occupational engagement; occupational science and wellness in occupational therapy practice. (Duplicates credit in former OT 504.) Open only to Occupational Therapy majors.

**OT 537 Occupation-Centered Programs for the Community (4, Fa)** Development of a proposal for new or extended services; includes trends analysis, needs assessment, literature review, marketing plan, mock funding request, program evaluation and presentation. (Duplicates credit in former OT 570.) Open only to Occupational Therapy majors.

**OT 538 Current Issues in Practice: Adulthood and Aging (2, Fa)** Exploration of adulthood, aging and occupation; current topics related to aging population and occupational therapy to promote health and participation throughout the lifespan. (Duplicates credit in former OT 508.) Open only to Occupational Therapy majors.

**OT 540 Leadership Capstone (2, Sp)** Professional capstone in leadership, advocacy, ethical reasoning, professional behavior, and public policy as it impacts the practice of occupational therapy; independent professional externship. (Duplicates credit in former OT 580.) Open only to Occupational Therapy majors.

**OT 545 Advanced Seminar in Occupational Science (2, Sp)** Advanced analysis of occupational science concepts including dimensions of occupation and the impact of occupation on health and wellbeing; factors associated with participation in occupation at the individual, community and global levels. (Duplicates credit in former OT 585.) Open only to Occupational Therapy majors.

**OT 560 Contemporary Issues in School-Based Practice (4, FaSp)** Current issues in school-based occupational therapy evaluation, ongoing assessment and intervention. Topics include successful collaboration in inclusive classrooms and on IFSP and IEP teams. Open only to OT majors. Graded CR/NC.

**OT 561 Occupational Therapy in Acute Care (4, Sp)** Knowledge and skills for occupational therapy practice in acute care settings using a systems-based approach; includes an experiential learning component at Keck Hospital of USC. Open only to Occupational Science and Occupational Therapy students. Graded CR/NC.

**OT 564 Sensory Integration (4, Sp)**  
Comprehensive overview of sensory integration theory and basic intervention principles. A case-based approach will facilitate the integration of sensory integration, evidence-based practice and occupational science. Open only to OT majors. Graded CR/NC.

**OT 571 Assistive Technology (4, Sp)** Principles of assessment, selection, training, and follow-up with clients in the use of assistive technologies to enable and enhance participation in a meaningful occupation. Open only to OT majors. Graded CR/NC.

**OT 572 Ergonomics (4, Sp)** Focus on the effects of physical design in the workplace on users' injury rate, behavior, performance and stress levels. Intervention for repetitive motion included. Open only to OT majors. Graded CR/NC.

**OT 573 Hand Rehabilitation (4, Fa)** Occupation-based evaluation and intervention for individuals with acute and chronic hand disorders. Topics include scar management, splinting, peripheral nerve injury, wound healing and physical agent modalities. Open only to OT majors. Graded CR/NC.

**OT 574 Enhancing Motor Control for Occupation (4, FaSp)** Laboratory examining

approaches to assessment and remediation of motor control following upper motor neuron lesions. An occupation-based approach to Neurodevelopmental Treatment (NDT) will be emphasized. Open only to OT majors. Graded CR/NC.

**OT 575 Dysphagia Across the Lifespan: Pediatrics through Geriatrics (2, Sp)** A comprehensive investigation of the anatomy and physiology of normal and abnormal swallowing. Didactic and hands-on study of assessment and treatment interventions will be addressed. Open only to OT majors. Graded CR/NC.

**OT 576 Universal Design (4, Fa)** Examination of the concepts and principles of universal design and the benefits of the approach for people with disabilities and for all individuals. Open only to Occupational Therapy and Occupational Science majors. Graded CR/NC.

**OT 577 Seminar in Occupational Therapy (2, Sp)** Occupational therapy and the health care system. (Duplicates credit in former OT 505.) Open only to Occupational Therapy majors. Graded CR/NC.

**OT 578 Therapeutic Communication for the Healthcare Practitioner (2)** Explores the principles and practice of therapeutic communication including motivational interviewing, mindfulness, and cognitive behavioral therapy. Graded CR/NC. Not open to undergraduates.

**OT 581 Quantitative Research for the Practicing Clinician (4, FaSp)** Traditions and methods of quantitative research for practicing clinicians; emphasis on formulation of clear clinical questions; finding, evaluating, and applying evidence to a clinical problem. Open only to occupational therapy majors.

**OT 583 Lifestyle Redesign (4, Sp)** Seminar examining occupations and lifestyle redesign as a contribution to health and well-being. Topics include therapeutic process, needs assessment, design and marketing of lifestyle modules. Open only to OT majors. Graded CR/NC.

**OT 584 Clinical Applications of Telehealth Technologies in OT (2, Sp)** Interactive course exploring the history of telehealth technologies; includes definitions, care models, remote services, applications, activity monitoring devices, technology enabled therapy, legislation, reimbursement. Open only to Occupational Science and Occupational Therapy graduate students. Graded CR/NC.

**OT 585 Advanced Seminar in Occupational Science (2, FaSp)** Advanced analysis of occupational science concepts including dimensions of occupation and the impact of occupation on health and wellbeing; factors associated with participation in occupation at the individual, community and global levels. Open only to occupational therapy majors.

**OT 586 Clinical Internship with Seminar (1-2, max 6, FaSpSm)** Clinical internship to qualify for professional certification. Seminar to integrate theory with application of treatment principles for various populations. (Duplicates credit in former OT 486.) Open only to Occupational Therapy majors. Graded CR/NC.

**OT 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.

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

**OT 599 Special Topics (2-4, max 8, FaSpSm)**

Recent developments in occupational therapy and occupational science.

**OT 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.*

**OT 620 Current Issues in Occupational Science and Occupational Therapy (4)** Review of current occupational science research as it is applied to practice; examination of leadership opportunities; development of proposal focusing on chosen area of study. Open only to occupational therapy doctoral students. Prerequisite: *OT 585.*

**OT 621 Occupational Therapy Leadership: Contemporary Issues (4)** Examination of themes in occupational therapy related to power, confidence, and identity; development of leadership skills; analysis of the impact of policy and advocacy on occupational therapy. Open only to occupational therapy doctoral students.

**OT 640 Conceptual Foundations of Occupational Science (4, FaSp)** Analysis of the conceptual foundations and methodological orientations for occupational science, understandings of disciplinary perspectives, formulation of theoretical arguments, and the interpretation of research data.

**OT 641 The Nature of Occupation (4, FaSp)** Theoretical and historical foundations for the study of occupation, engagement in living and learning in everyday life.

**OT 642 Therapeutic Uses of Self: Psychodynamic Perspectives (4, FaSp)** Survey of the diversity of analytic conceptions of subjectivity and intersubjectivity. Emphasis on the way these ideas influence the notion of therapeutic efficacy within Occupational Science.

**OT 643 Meaningful Engagement in Everyday Life (4)** Exploration of the subjective experience of meaningful engagement in work, play, and the occupational pursuits of everyday life, drawing on contributions from the social sciences.

**OT 644 Foundations of Research on Activity and Health (4, FaSp)** Examination of effectiveness and efficacy research, study design and methodology, dimensions of adaptation and research methods through the lens of two division-based research programs.

**OT 645 Narrative, Healing and the Culture of Biomedicine (4, FaSp)** Introduction to narrative as analytic framework for considering chronic illness, disability, occupation, and the moral and cultural influences on the clinical reasoning of health professionals.

**OT 646 Intersections of Occupational Science and Human Development (4, FaSp)** Analysis of occupational science perspectives related to human development and participation in sociocultural practices and examination of developmental theories and their relationship to occupational science.

**OT 647 Producing New Knowledge in Occupational Science (4, Sp)** Problems, theory, methods and contexts of research in occupational science, as a discipline that seeks to understand, explain, and promote human flourishing. Prerequisite: *OT 640*; recommended preparation: *at least one advanced course in qualitative, quantitative, or mixed methods for research. Open only to doctoral students.*

**OT 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.

**OT 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.

**OT 660 Research Practicum (2, max 12)** Experiential learning through immersion in one or more externally funded research groups in the Division, enabling intense participation in multi-skilled research groups. Graded CR/NC. Open only to Occupational Therapy and Occupational Science majors.

**OT 686 Residency (6 or 12, max 24, FaSpSm)** Residency involving development, administration, evaluation, or policy formulation for occupation-centered programs in clinical or community settings. Development of portfolio for professional doctorate. Open to OT majors only. Graded CR/NC.

**OT 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.

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