**REHABILITATION SCIENCE (REHAB SCI)**

**REHAB SCI 200A  Laboratory Rotation I (3 Units)  Fall, Winter**  
*Instructor(s):* Richard B. Souza  
*Prerequisite(s):* None  

Restrictions: First-year students in the PhD in Rehabilitation Science program  

Activities: Laboratory  

Students will rotate through different faculty laboratories to learn new instrumentation and scientific methodology and undertake an individual study with emphasis on special problems in rehabilitation science including areas related to the student’s long term interests, future research interests, or clinical specialization.

**School:** Graduate Division  
**Department:** Rehabilitation Science Program  
**May the student choose the instructor for this course?** No  
**Does enrollment in this course require instructor approval?** No  
**Course Grading Convention:** P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  
**Graduate Division course:** Yes  
**Is this a web-based online course?** No  
**Is this an Interprofessional Education (IPE) course?** No  
**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** Yes  
**Repeat course for credit?** No

---

**REHAB SCI 200B  Laboratory Rotation II (3 Units)  Winter, Spring, Summer**  
*Instructor(s):* Richard B. Souza  
*Prerequisite(s):* None.

Restrictions: First-year students in the PhD in Rehabilitation Science program  

Activities: Laboratory  

Students will rotate through different faculty laboratories to learn new instrumentation and scientific methodology and undertake an individual study with emphasis on special problems in rehabilitation science including areas related to the student’s long term interests, future research interests, or clinical specialization.

**School:** Graduate Division  
**Department:** Rehabilitation Science Program  
**May the student choose the instructor for this course?** No  
**Does enrollment in this course require instructor approval?** No  
**Course Grading Convention:** P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  
**Graduate Division course:** Yes  
**Is this a web-based online course?** No  
**Is this an Interprofessional Education (IPE) course?** No  
**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** Yes  
**Repeat course for credit?** No

---

**REHAB SCI 200C  Laboratory Rotation III (3 Units)  Winter, Spring, Summer**  
*Instructor(s):* Richard B. Souza  
*Prerequisite(s):* RS200A, RS200B  

Restrictions: First-year students in the PhD in Rehabilitation Science program  

Activities: Laboratory  

Students will rotate through different faculty laboratories to learn new instrumentation and scientific methodology and undertake an individual study with emphasis on special problems in rehabilitation science including areas related to the students’ long term interests, future research interests, or clinical specialization. The goals of this course are to provide overall exposure to various lab environments to assist the student in identifying a lab in which to perform their dissertation work.

**School:** Graduate Division  
**Department:** Rehabilitation Science Program  
**May the student choose the instructor for this course?** No  
**Does enrollment in this course require instructor approval?** No  
**Course Grading Convention:** P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  
**Graduate Division course:** Yes  
**Is this a web-based online course?** No  
**Is this an Interprofessional Education (IPE) course?** No  
**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** Yes  
**Repeat course for credit?** No

---

**REHAB SCI 201  Introduction to Rehabilitation Science (2 Units)  Fall**  
*Instructor(s):* Richard B. Souza  
*Prerequisite(s):* Consent of instructor.

Restrictions: First-year students in the PhD in Rehabilitation Science program.

Activities: Lecture  

This required course for PhD students 1) provides an introduction to the areas of rehabilitation science research, and 2) provides historical perspective on the major issues in rehabilitation science. Students will learn about resources and on-going research projects within the University, and will read classic papers of the last 150 years with the objective of understanding the fundamental discoveries that have shaped the discipline of rehabilitation science.

**School:** Graduate Division  
**Department:** Rehabilitation Science Program  
**May the student choose the instructor for this course?** No  
**Does enrollment in this course require instructor approval?** No  
**Course Grading Convention:** Letter Grade  
**Graduate Division course:** Yes  
**Is this a web-based online course?** No  
**Is this an Interprofessional Education (IPE) course?** No  
**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** Yes  
**Repeat course for credit?** No
REHAB SCI 202  Gross and Regional Anatomy  (1 Units)  Fall, Winter, Spring  
Instructor(s): Jennifer R Kinder, Richard B. Souza  
Prerequisite(s): Consent of instructor  
Restrictions: First-year students in the PhD in Rehabilitation Science program  
Activities: Laboratory  

Students investigate a regional of human anatomy with direct relevance to their area of research interest. Course includes mentored cadaveric dissection, radiological imaging, ultrasound imaging, focused study of embalmed material. Goals are to gain a deep understanding of the region of interest and to relate the knowledge to studies in the Musculoskeletal Biomechanics or Clinically Informed Neuroscience tracks. Example foci are lower limb joints, nerve paths, spinal cord in situ.

School: Graduate Division  
Department: Rehabilitation Science Program  
May the student choose the instructor for this course? No  
Does enrollment in this course require instructor approval? No  
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  
Graduate Division course: Yes  
Is this a web-based online course? No  
Is this an Interprofessional Education (IPE) course? No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes  
Repeat course for credit? No

REHAB SCI 203  Doctoral Colloquium  (1 Units)  Fall, Winter, Spring  
Instructor(s): Richard B. Souza  
Prerequisite(s): Instructor approval  
Restrictions: Students in the PhD in Rehabilitation Science program  
Activities: Lecture  

Forum to discuss current research of students and faculty members, practice influence on research, translation of research to practice. Topics: professional development, including manuscript reviews; selection of journals for publication of one's work; ethical decisions in publication, grant review, authorship; participation in professional organizations; best practices in teaching, research decisions, collaborations, mentoring; scholarship and funding opportunities, strategies, and decisions.

School: Graduate Division  
Department: Rehabilitation Science Program  
May the student choose the instructor for this course? No  
Does enrollment in this course require instructor approval? Yes  
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  
Graduate Division course: Yes  
Is this a web-based online course? No  
Is this an Interprofessional Education (IPE) course? No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes  
Repeat course for credit? Yes

REHAB SCI 204  Application of Principles of Learning  (3 Units)  Fall, Summer  
Instructor(s): Staff  
Prerequisite(s): REHAB SCI 201, REHAB SCI 200A, REHAB SCI 200B, REHAB SCI 200C  
Restrictions: PhD in Rehabilitation Science students  
Activities: Lecture, Workshop  

Required instructional course in rehabilitation science problem-solving; taught by faculty members in the DPT program and other departments at UCSF. The course is designed to strengthen students' understanding of the foundations of rehabilitation science and research knowledge, introduce effective teaching strategies, and improve problem-solving skills by providing the opportunity to serve as teaching assistants in various courses.

School: Graduate Division  
Department: Rehabilitation Science Program  
May the student choose the instructor for this course? Yes  
Does enrollment in this course require instructor approval? No  
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  
Graduate Division course: Yes  
Is this a web-based online course? No  
Is this an Interprofessional Education (IPE) course? No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes  
Repeat course for credit? No

REHAB SCI 205  Biomechanics of Human Motion  (2 Units)  Fall  
Instructor(s): Richard B. Souza  
Prerequisite(s): REHAB SCI 201  
Restrictions: Limited to Rehabilitation Science students  
Activities: Lecture, Project  

This course introduces students to the concepts of mechanics as they apply to human motion. The primary areas of study include anthropometry, kinematics, kinetics, muscle function, and muscle modeling, placing emphasis on the biomechanics of locomotion using the inverse dynamics approach for calculating moments of force and joint power.

School: Graduate Division  
Department: Rehabilitation Science Program  
May the student choose the instructor for this course? No  
Does enrollment in this course require instructor approval? No  
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  
Graduate Division course: Yes  
Is this a web-based online course? No  
Is this an Interprofessional Education (IPE) course? No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes  
Repeat course for credit? No
REHAB SCI 206  Journal Club (1 Units)  Fall, Winter, Spring  
_Instructor(s):_ Richard B. Souza  
_Prerequisite(s):_ Instructor Approval  

Restrictions: Students in the PhD in Rehabilitation Science Program  

Activities: Lecture  

Designed for PhD students in Rehabilitation Science to explore literature across the spectrum of biomedical sciences. Students will be assigned articles to read and present at meetings attended by students, postdocs, faculty and staff. Students will be expected to read articles outside of class time and come prepared with clear and succinct evaluation about each article. Faculty leads will provide feedback on article evaluation and work with students to hone their literature evaluation skills.  

_School:_ Graduate Division  
_Department:_ Rehabilitation Science Program  
_May the student choose the instructor for this course?_ No  
.Does enrollment in this course require instructor approval? Yes  
_Course Grading Convention:_ P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  

Graduate Division course: Yes  
Is this a web-based online course? No  
Is this an Interprofessional Education (IPE) course? No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes  
Repeat course for credit? Yes  

---  

REHAB SCI 290  Rehabilitation Science Related Studies (0 Units)  Fall, Winter, Spring, Summer  
_Instructor(s):_ Richard B. Souza  
_Prerequisite(s):_ None  

Restrictions: None  

Utility course; for departmental use only.  

_School:_ Graduate Division  
_Department:_ Rehabilitation Science Program  
_May the student choose the instructor for this course?_ No  
.Does enrollment in this course require instructor approval? No  
_Course Grading Convention:_ P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  

Graduate Division course: Yes  
Is this a web-based online course? No  
Is this an Interprofessional Education (IPE) course? No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes  
Repeat course for credit? Yes  

---  

REHAB SCI 250  Research (0.5-8 Units)  Fall, Winter, Spring, Summer  
_Instructor(s):_ Staff  
_Prerequisite(s):_ Instructor approval  

Restrictions: PhD in Rehabilitation Science students  

Activities: Laboratory  

Students conduct research projects under guidance of faculty member. Projects must be approved by both the research mentor supervising the student and the program director. Students may initiate or become involved in established research programs under faculty guidance.  

_School:_ Graduate Division  
_Department:_ Rehabilitation Science Program  
_May the student choose the instructor for this course?_ Yes  
.Does enrollment in this course require instructor approval? Yes  
_Course Grading Convention:_ P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  

Graduate Division course: Yes  
Is this a web-based online course? No  
Is this an Interprofessional Education (IPE) course? No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes  
Repeat course for credit? Yes