

Allied Health Studies

Cardiopulmonary Sciences

Polysomnography
Respiratory Care
Physician Assistant
Emergency Medical Care

Clinical Laboratory Science

Phlebotomy
Cytotechnology
Clinical Laboratory Science (formerly Medical Technology)

Health Information Management

Health Information Systems
Health Information Administration
Coding Specialist

Nutrition and Dietetics

Dietetic Technology
Nutrition and Dietetics

Occupational Therapy

Occupational Therapy Assistant
Occupational Therapy

Physical Therapy

Physical Therapist Assistant
Physical Therapy

Radiation Technology

Medical Radiography
Radiation Sciences
Radiation Therapy Technology
Radiologist Assistant
Diagnostic Medical Sonography
Medical Dosimetry
Nuclear Medicine Technology
Special Imaging Technology: CT/MRI

Speech Language Pathology and Audiology

Speech-Language Pathology
Speech-Language Pathology Assistant
Speech-Language Pathology and Audiology

Loma Linda University

School of Allied Health Professions

Bulletin 2004-2005

Loma Linda, California
<http://www.llu.edu/llu/sahp/>

This BULLETIN is the definitive statement of the School of Allied Health Professions on the requirements for admission, enrollment, curriculum, and graduation. The School of Allied Health Professions reserves the right to change the requirements and policies set forth in this BULLETIN at any time upon reasonable notice. In the event of conflict between the statements of this BULLETIN and any other statements by faculty or administration, the provisions of this BULLETIN shall control, unless express notice is given that the BULLETIN is being modified.

The information in this BULLETIN is made as accurate as is possible at the time of publication. Students are responsible for informing themselves of and satisfactorily meeting all requirements pertinent to their relationship with the University. The University reserves the right to make such changes as circumstances demand with reference to admissions, registration, tuition and fees, attendance, curriculum requirements, conduct, academic standing, candidacy, and graduation.

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**School of
Allied Health
Professions**

2004-2005

This is a one-year BULLETIN,
effective beginning Summer Quarter 2004.

Loma Linda University

Loma Linda, CA 92350

a health-sciences university

C S

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47

Welcome to Loma Linda University School of Allied Health Professions,
housed in Nichol Hall
(formerly Loma Linda Sanitarium).

I

LOMA LINDA UNIVERSITY

University Foundations

Our Mission

Nondiscrimination Policy

Affirmative Action

The Calendar

University Foundations

HIS

Loma Linda University has grown out of the institution founded at Loma Linda, California, by the Seventh-day Adventist Church in 1905. The original schools—Nursing and Medicine—have been joined by Allied Health Professions, Dentistry, Public Health, School of Pharmacy, the Graduate School, and the Faculty of Religion.

The University, operated by the Seventh-day Adventist Church, is committed to the vision of its founders and is sustained by its close association with the church.

Loma Linda University is a Seventh-day Adventist coeducational, health-sciences institution located in inland southern California. It is part of the Seventh-day Adventist system of higher education. Professional curricula are offered by the Schools of Allied Health Professions, Dentistry, Public Health, Medicine, Pharmacy, and Nursing. Graduate programs in various biomedical sciences are offered by departments of the schools. The professional curricula of the University are approved by their respective professional organizations.

The most current campus census figures (July 1, 2003) indicate that the core of the combined faculties consists of 1,071 full-time teachers. Part-time and voluntary teachers, largely clinicians in the professional curricula, bring the total to 2,565. As of Autumn Quarter 2002, students from 93 countries are represented in the enrollment of 3,520.

HIL S

As implied by its motto, “TO MAKE MAN WHOLE,” the University affirms these tenets as central to its view of education:

God is the creator and sustainer of the universe.

Mankind’s fullest development entails a growing understanding of the individual in relation both to God and society.

The quest for truth and professional expertise, in an environment permeated by religious values, benefits the individual and society and advances the ministry of the Seventh-day Adventist Church.

ACADEMIC AFFAIRS

We respect our faculty, staff, and administration who through education, research, and service create a stimulating learning environment for our students. They contribute to the development of new understandings in their chosen fields. They demonstrate both Christian values and competence in their scholarship and professions.

ADDITIONAL SERVICES

We provide humanitarian service through people, programs, and facilities. We promote healthful living and respond to the therapeutic and rehabilitative needs of people. We seek to enhance the quality of life for individuals in local, regional, national, and world communities.

ADVENTIST CHURCH

We believe all persons are called to friendship with a loving God both now and throughout eternity. We support the global mission of the Seventh-day Adventist Church by responding to the need for skilled Christian health professionals and scholars. We seek to honor God and to uphold the values of the Seventh-day Adventist Church and its commitment to awakening inquiry. We are drawn by love to share the good news of God expressed through the life and gospel of Jesus Christ and to hasten His return.

ondiscrimination policy

The University was established by the Seventh-day Adventist Church as an integral part of its teaching ministry. It is committed to equal education and employment opportunities for men and women of all races and does not discriminate on the basis of handicap, gender, race, color, or national origin in its educational or admissions policies, financial affairs, employment programs, student life and services, or any University-administered program.

Any student with a documented disability (e.g., physical, learning, or psychological) who needs to arrange reasonable accommodation must contact the dean, or designee, of the School of Allied Health Professions. All discussions will remain confidential.

To this end, the University is in compliance with Titles VI and VII of the Civil Rights Act of 1964 as amended, and in substantial compliance with Title IX of the Education Amendments of 1972 (34 CFR 106 et seq.), Sections 503 and 504 of the Rehabilitation Discrimination in Employment Act of 1967, and Section 402 of the Vietnam Era Veterans Adjustment Act of 1974; and does not discriminate against any employees or applicants for employment on the basis of age or because they are disabled veterans or veterans of the Vietnam era. In addition, the University administers student programs without dis-

Affirmative Action

The University routinely monitors its educational and employment practices regarding women, minorities, and the handicapped to ensure compliance with the law and University policy. The University's affirmative action policy is to provide

he Calendar

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The Calendar

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3

Summer Quarter ends

6

Labor Day recess

PO T W T F S ON 2004

7

Instruction begins (unless otherwise noted in class schedule)

3-20

Fourteen-day session: Nutrition and Dietetics

7-17

Nine-day session

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The Calendar

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11-JAN 2
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20

Registration for Winter Quarter
Christmas tree lighting
Final examinations
Autumn Quarter ends
Christmas recess: 23 days
Grades due from faculty
Instruction begins for Radiation Technology- Medical Radiography (A.S. degree, 2nd year); Radiation Therapy Technology; Diagnostic Medical Sonography; Nuclear Medicine Technology; Special Imaging Technology

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3-MAR 18
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3-Mar 25
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18-21

W NT S Q AST S 2005
Winter Quarter total days (including examinations): 53
Instruction begins (all schools, unless otherwise noted)
Instruction begins for Radiation Technology B.S. degree; and for Medical Radiography A.S. degree, 1st year
Last day to obtain financial clearance
PA Program, 2nd year Winter Quarter clerkships
Mission Emphasis Week
Last day to enter a course or change from audit to credit/credit to audit
Martin Luther King, Jr., Symposium for Diversity in Health Care
Martin Luther King, Jr., Day recess
Last day to withdraw with no record of course registration on transcript
Student Week of Spiritual Emphasis

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TBA

Black History Month
BHPSA chapel
Instruction begins for Cytotechnology
Registration for Cytotechnology
Presidents' Day recess
BALL Banquet
Last day to withdraw with a W grade or to submit S/U petition
SAHP, GS, SN Job Fair

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26-APR 3
28-JUN 10
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29

Registration for Spring Quarter
Term III practicum begins for Clinical Laboratory Science Seniors
Final examinations
Winter Quarter ends
Spring recess: 9 days
Grades due from faculty
PTA Winter Quarter ends
PA program, 2nd year Spring recess
PS NG Q AST S 2005
Spring Quarter total days (including examinations): 54
Last day to obtain financial clearance
Instruction begins (unless otherwise noted in class schedule)

The Calendar

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PA Program 2nd year Spring Quarter clinical rotations
Spring Week of Devotion
Last day to enter a course or change from audit to credit/credit to audit
Last day to withdraw with no record of course registration on transcript record
SAHP alumni weekend

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Diversity Consecration Service
Registration for Cytotechnology certificate
Instruction begins for Cytotechnology certificate
Last day to withdraw with a W grade or to submit S/U petition
SAHP MOT Research Colloquium
Memorial Day recess

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Registration for summer session
Final examinations
PA program, 2nd year clinical rotations
Focus on Graduates Vespers: AH, GS, PH, SN
Spring Quarter ends
Baccalaureate: AH, GS, PH, SN
Dietetics Pinning Service
Occupational Therapy and OT Assistant Pinning Service
Conferring of Degrees: AH, GS, PH, SN
Grades due from faculty

S ON 2005

13-SEP 23
20-JUL 26
20-SEP 23
21-SEP to aud 27

Nutrition and Dietetics Summer Practicum
First five-week summer session
PA program, 1st year summer session
Registration for summer session
Last day to withdraw with no record of course registration on transcript record

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5	Labor Day recess
6-16	Total days of instruction: 9
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21-DEC	



Welcome!
Emmalein Dharmaraj speaks for everyone here
at the School of Allied Health Professions.
We are very pleased, indeed, that you are considering
a career in the allied health professions.
The faculty, administrative personnel, and staff
are here to help in the decisions for your future
in whatever way we can.

II

SCHOOL OF ALLIED HEALTH PROFESSIONS

Letter from the Dean

School Foundations

Mission and Goals

General Information

Admissions Information

Student Life

Policies and General Regulations

Financial Information



Welcome to the School of Allied Health Professions at Loma Linda University. Here you will receive a quality education from a committed faculty and staff. Regardless of the discipline you have chosen to study, we believe we offer an environment that fosters academic excellence, professional competence, and spiritual development.

Our close and effective connection with Loma Linda University Medical Center enables both students and faculty to stay on the cutting edge of health care practice. The School's more than 1,300 clinical affiliations throughout the United States offer a wide variety of experience options designed to develop a well-rounded health care professional.

In the School of Allied Health Professions, we are committed to your education and professional development and believe that it is more than just clinical competence—it is our emphasis on the development of the caring and compassionate professional—that sets us apart.

A handwritten signature in black ink that reads "Craig R. Jackson". The signature is written in a cursive, flowing style.

Craig R. Jackson, J.D., M.S.W.
Dean

3. Demonstrate compassion for others in the manner of Christ.
4. Clarify his/her values and attitudes of human worth in relationship to his/her understanding of God.
5. Perform effectively within a team setting.
6. Communicate effectively with peers, supervisors, patients, family, and the community—orally and in writing—with sensitivity to nonverbal communication.
7. Analyze and respond to the changing field of health care.
8. Critically analyze data.
9. Read and interpret research papers.
10. Contribute to the chosen health profession through participation in professional organizations.
11. Utilize a theoretical foundation as a basis for treatment or management.
12. Incorporate wholeness into all aspects of personal and professional life.
13. Use sensitivity to accommodate diversity among individuals.
14. Commit to lifelong personal and professional learning.

General Information

ACCREDITATION

The programs are approved by the appropriate accrediting agencies, and graduates are eligible to take the qualifying examinations of the respective state and national licensing or registration bodies and to join the professional organizations. Details of accreditations are given in the individual sections and in the accreditation sections of division VI of this BULLETIN.

ADMINISTRATION

The dean, the chief administrative officer of the School, presides over the Administrative Council, which meets regularly during the school year. The chairs of the departments direct the teaching of the programs. Advisory committees of outstanding professionals in the fields of education and the allied health professions assist the department chairs in the continuing study of the curricula and in the preparation of recommendations.

INTERNATIONAL AFFILIATIONS

The academic resources and the affiliated clinical facilities of the University constitute a rich educational environment for the health-professions student, both in classroom instruction and in guided experience in hospitals and clinics. Major facilities utilized for clinical affiliations and internships include the University Medical Center; the Jerry L. Pettis Memorial Veterans Medical Center; and other hospitals and community agencies located in the Redlands, San Bernardino, Riverside, and Los Angeles areas, as well as throughout the United States.

APPLICANT ADDRESS

Write to:

Correspondence about admission to all programs and requests for application information should be addressed to:

Office of Admissions and Records
School of Allied Health Professions
Loma Linda University
Loma Linda, CA 92350

Applications are available on line at
<<http://www.llu.edu>>. (Click on "apply" under
Loma Linda University.)

Apply early

One class is admitted annually to most of the professional programs. Most programs begin with the Autumn Quarter. Exceptions are noted in the respective departmental sections of this BULLETIN.

Late applications are considered as long as space is available. Notifications generally are sent between January 1 and May 15, depending on the completeness of information provided and the date of application. Applicants should inquire at the Office of Admissions and Records if notice of action is not

Applicant's records

The application and all records submitted in support of the application become the property of the University.

A C C I M S**Subject diploma requirements**

High school and college subject requirements for each program are outlined in the respective departmental sections of this BULLETIN. Students are required to furnish evidence of completion (official transcript) of high school to be granted admission to undergraduate programs in schools of the University. A high school diploma or its equivalent, the GED, is required.

Grade requirement

Eligibility for consideration by the Admissions Committee is based on a grade-point average of at least 2.0 (on a 4.0 scale) for all course work (science and nonscience subjects computed separately) presented in fulfillment of entrance requirements for all programs in the School. A grade-point average considerably higher than the minimum is expected because of the nature of the studies in many professional programs and the competition for the limited number of openings. In general, grade-point averages between 2.5 and 3.0 are considered minimal, depending on the program. A minimum grade of C (2.0) is required for all college transfer courses.

Transcripts

Transcripts (the documents by which institutions officially convey the grades and credits earned in specific subjects and the stage of completion of curriculum requirements) are accepted only when sent directly to the University by the issuing institution. Transcripts received by the University become the property of the University and will not be released to the student or forwarded to any other institution upon request of the student.

Test requirement

Upon acceptance, a self-study syllabus will be sent to the student in preparation for a mathematics screening examination that will be given immediately following registration. Those scoring below the acceptable minimum will be required to do remedial work and retake the test.

A writing skills pretest is also administered. The scores for the Wholistic Grading Rubric (WGR) are shown below. Any student scoring less than 4 will be required to do remedial work during the program and retake the test. The pretest is graded on the following criteria:

- 6= Demonstrates clear competence in writing on both the rhetorical and syntactic levels, though the essay may have occasional errors.
- 5= Demonstrates competence in writing on both the rhetorical and syntactic levels, though the essay will probably have occasional errors.
- 4= Demonstrates minimal competence in writing on both the rhetorical and syntactic levels.

- 3= Demonstrates some developing competence in writing, but the essay remains flawed on either the rhetorical or syntactic level, or both.

Student Life

T

H L S H AL H

The University regards the student from a cosmopolitan and comprehensive point of view—

- cosmopolitan, in that historically the University's global mission has promoted bonds and opportunities in education and service without regard to gender, national or racial origin, or geographical origin; and
- comprehensive, in that the University's concern for the welfare of the student traditionally has been an integrated concern for assisting the student in balanced development.

Loma Linda University offers opportunities for students to complement their formal learning through participation in a wide variety of recreational, cultural, and other activities which can enrich their group interaction and leadership experiences, increase their interests in fields outside their profession, develop their talents, and enhance wholesome and memorable association with others.

Students from all schools of Loma Linda University may congregate and participate in the multifaceted programs offered that involve the wholistic concept of social, intellectual, physical, emotional, and spiritual wellness. These programs support Loma Linda University's motto, "To make man whole."

S I I AL H AL H

Opportunities for personal development and spiritual enrichment are provided in the regular schedule of religious exercises and activities and in informal association with others who cherish spiritual values.

Through the Faculty of Religion, required and elective classes are offered—in foundational studies (biblical, theological, historical, and mission); in personal, professional, and social ethics; and in relational studies (applied theology, clinical ministry, and psychology of religion).

I S L S — AM L
C S LI C

The University Counseling Center offers a variety of confidential services to students and their families, including: individual, premarital, marital, family, and group counseling regarding issues of adjustment, anxiety, depression, etc.; skills in time management, studying, and test-taking; and 24-hour emergency crisis intervention. The center is located at 11374 Mountain View Avenue, Loma Linda. Full-time students may receive up to nine free visits. Call 909/558-4505 (or, on campus: 66028) to schedule an appointment or for more information.

S — ASSIS A C AM

The Loma Linda Student Assistance Program (LLSAP) provides professional and caring assessment and treatment for a variety of personal, family, work, and school-related issues. Student Assistance Program clinicians will develop a treatment plan that may include free short-term counseling, up to eight sessions. If more extensive treatment is appropriate, clients are referred to a community therapist who specializes in the student's area of concern and who is covered by the student's health plan. All information is confidential. Clinicians in the program will not release information without the written consent of the student, with the exception of matters that fall under mandatory reporting laws.

Loma Linda Student Assistance Program, the only nationally accredited student assistance program in California, has provided state-of-the-art services to students since it was established in 1990.

Appointments may be scheduled during office hours (on-campus extension—66050; off-campus telephone—558-6050): Monday through Wednesday 8 a.m.-5 p.m.; Thursday 8 a.m.-8 p.m.; Friday 8 a.m.-1 p.m. Additional appointment times may be available upon request. All LLSAP services are free of charge. The program is located at:

11360 Mountain View Avenue
Hartford Building, Suite A
Loma Linda, CA 92354.

S AL HA ASSM

Sexual harassment is reprehensible and will not be tolerated by the University. It subverts the mission of the University and threatens the careers, educational experience, and well-being of students, faculty, employees, and patients.

Because of the sensitive nature of situations involving sexual harassment and to assure speedy and confidential resolution of these issues, students should contact one of the School's designatand d to assure

ACADEMIC AUTHORITY

The Office of the Dean is the final authority in all academic matters, with the exception of General Education requirements, and is charged with the interpretation and enforcement of academic requirements. Any exceptions or changes in academic requirements, graduation requirements, or grades are not valid unless approved by the dean. Any actions taken by individual faculty members with regard to these matters are advisory only and are not binding on the School or the University unless approved by the dean.

ACADEMIC INTEGRITY

Acts of dishonesty—such as but not limited to theft; plagiarism; knowingly giving, obtaining, or falsifying information during examinations or other academic or professional practice assignments—can be cause for dismissal from the School. Instructors and students are charged with the responsibility of reporting instances of such behavior to the department chair for investigation. Substantiated violations are to be brought before the dean for disciplinary action.

The minimum disciplinary actions to be taken for plagiarism include:

- first offense—a failing grade on the assignment;
- second offense—failure in the course without possibility of withdrawal.

Cheating will result in failure in the course without possibility of withdrawal and may result in dismissal from the program.

Financial Aid) will the course(s) count on the student's total load as eligible for financial-aid and loan-deferment purposes.

A person who is not enrolled in regular classes but who is occupied in research, dissertation, or thesis, is classified as a student. By filing an Academic Load Validation form every quarter at registration, the academic load may be validated for loan-deferment and immigration purposes. The student must be carrying IP (in progress) units or registered for a minimum of 1 new unit of research, dissertation, or thesis for the quarter. The academic work load is counted as follows:

- full load—minimum of 36 clock hours/week
- three-quarter load—minimum of 27 clock hours/week
- one-half load—minimum of 18 clock hours/week
- one-quarter load—minimum of 9 clock hours/week.

A student may simultaneously earn more than one baccalaureate degree, provided there is a minimum of 20 units unique to each degree and provided all other degree requirements are met.

Graduate level courses

Seniors who meet prerequisites may, with approval of the instructor and consent of the dean of the School of Allied Health Professions and the dean of the school offering the course, enroll for a limited number of graduate-level courses (500-level or above). Only with special permission may credit be applied to the undergraduate degree, in which case the credit will not apply toward a graduate degree.

Attendance

Regular attendance at all appointments (class, clinical, laboratory, special assignment, chapel) is required beginning with the first day of each term. Voluntary absences from laboratory assignments are not permitted.

Special examination

It is expected that the student will take quizzes and examinations at the regularly scheduled time. To take an examination at a time other than when it is scheduled, the student must secure the consent of the instructor and the chair of the department and must file with the instructor a permit obtained from the Office of the Dean. A fee is charged for a special examination. (See the Schedule of Charges in the Financial Information section of this BULLETIN.)

Academic residence

In order to graduate from Loma Linda University with a bachelor's degree, a student must complete at least 32 of the last 48 units, or a minimum of 45 total units of course work, at this University. A minimum grade of C (2.0) or better is required for all B.S. and postbaccalaureate degrees.

Leave of absence

A student who requires a temporary discontinuance of studies must request in writing a leave of absence after one quarter's absence. The maximum term for a leave is one year. A student who is not registered after one quarter's absence (summer excluded in most cases) and has not

requested a leave of absence will be considered no longer in the program. In this case the student who seeks re-entry must meet the entrance requirements in force at the time of re-entrance and will enter under the new BULLETIN.

STUDENTS AND STUDENTS

It is important that students portray a professional image to those with whom they come in contact. Inappropriate dress, grooming, or conduct often detracts from patients' confidence in the quality of their care. In addition, Loma Linda University's affiliating hospitals have standards that are reflected in the guidelines below. For these reasons the following standards are provided. Students are required to adhere to these standards while enrolled in the program.

A student failing to observe these dress and grooming codes may be dismissed by a faculty member from a class or building. Students will be allowed to return to the class/building when the problem is eliminated.

Personal grooming

Good taste indicates that haircuts, hairstyling, and personal grooming be neat, and conservative rather than ostentatious. Grooming and style should also be practical, so that the student can perform assigned duties without embarrassment or inconvenience. Specifically:

- Men's hair must be neatly trimmed and not fall below the collar. Ponytails, spikes, and dreadlocks are not acceptable.
- Mustaches and beards, if worn, must be neat and closely trimmed.
-

Audit

Certain courses (excluding laboratory courses) may be audited. Consent for enrollment as an auditor is granted by the department, with the endorsement of the dean, and is subject to classroom space. Change of classification from audit to credit or from credit to audit may be done only during the first seven calendar days of the quarter for courses following the general University calendar. For other courses, the change may be made with the consent of the dean. (For tuition rates, see the Schedule of Charges in the Financial Information section of this BULLETIN.)

Academic standing

A student's standing in the School is classified either as regular standing or academic probation, depending on his/her scholastic performance.

Student level

Students enrolled in a professional program in which they are classified as freshman, sophomore, junior, or senior will be classified according to the level of the course work they are taking (e.g., a student with a previous baccalaureate degree pursuing another baccalaureate degree would be classified as a sophomore while taking sophomore-level courses, etc.).

Students enrolled in block programs are classified according to the level of the block in which they are enrolled (e.g., master's—1st, 2nd, or 3rd year; certificate—1st, 2nd, or 3rd year; as well as freshman, sophomore, junior

UW Unofficial Withdrawal—indicates that the student discontinued class attendance after the close of registration but failed to withdraw officially.

I Incomplete—given when the majority of the course work has been completed and circumstances beyond a student's control result in the student being unable to complete the quarter. An I notation may be changed to a grade only by the instructor before the end of the following term (excluding the summer session for those not in attendance during that term). Incomplete units are not calculated in the grade-point average.

By the use of the petition form, the student requests an I notation from the instructor, stating the reason for the request and obtaining the signatures of the instructor, the department chair, and the associate dean. The form is left with the instructor. The instructor then reports the I notation on the grade-report form, as well as the grade the student will receive if the deficiency is not removed within the time limit. The petition form is then filed with the Office of University Records, along with the grade-report form.

The notation I is not granted as a remedy for overload, failure on final examination, absence from final examination for other than an emergency situation, or a low grade to be raised with extra work.

IP In Progress—indicates that the course has a duration of more than a single term and will be completed by the student no later than the final term of the course, not to exceed five quarters for independent study and research courses (original quarter of registration plus four additional quarters). The student's final grade is reported on the instructor's grade report at the end of the term in which the course is completed. If the course work is not completed within the five-quarter time limit, a grade of U will be given.

AU Audit—indicates registration for attendance only, with 80 percent class attendance considered a requirement. A request to change a credit course to audit or an audit course to credit may be made no later than the fourteenth calendar day after the beginning of a quarter or the seventh calendar day after the beginning of the summer session. (This does not apply to short summer courses lasting only a week or two.)

AUW Audit Withdrawal—given for withdrawing from the course or to indicate that the 80 percent class attendance requirement was not observed.

Repeating a course

A student who receives an unsatisfactory grade in a required course and is required by the faculty to do additional work may request of the faculty permission to pursue one of the following plans. In

either plan the student must register and pay the applicable tuition.

1. Review the course work under supervision and take a make-up examination (usually not given before a minimum of two weeks of study). A passing grade resulting from a repeat examination will be limited to a C (2.0). (See the Schedule of Charges in the Financial Information section of this BULLETIN for the tuition rate for tutorial course work.)
2. Repeat the course, attend class and/or laboratory, and take the final course examination. Full tuition will be charged whether regular or occasional attendance is required. (See the Schedule of Charges in the Financial Information section of this BULLETIN for the tuition rate.)

A student who receives an unsatisfactory grade in a required clinical experience course and is required by the faculty to do additional work must reregister and pay the applicable fee. (See the Schedule of Charges in the Financial Information section of this BULLETIN for the fee for repeat of clinical experience.)

Both the original and repeat grades are entered in the student's permanent academic record, but only the repeat grade is computed in the grade-point average. A course may be repeated only one time.

Promotion and probation

Each student's record is reviewed quarterly by the faculty. Promotion is contingent on satisfactory academic and professional performance and on factors related to aptitude, proficiency, and responsiveness to the established aims of the School and of the profession. As an indication of satisfactory academic performance, the student is expected to maintain the following grade-point average:

2.0	Associate and baccalaureate degree programs
2.5	Master's degree program
3.0	Doctoral degree program

A student whose grade-point average in any term falls below the minimum required for the degree, or who receives in any professional or required course a grade less than a C (2.0), or whose clinical performance is unsatisfactory is automatically placed on academic probation. Continued enrollment is subject to the recommendation of the department. If continued enrollment is not recommended, the case is referred to the Administrative Council of the School for final action.

If continued enrollment is recommended, the student will be required to institute a learning assistance plan within the first two weeks of the following quarter and meet regularly scheduled appointments with the academic adviser. The learning assistance plan should: identify the problem, identify and list the goals, state the time frame, and include student and adviser signatures and date.

A student who is on academic probation and fails to make the minimum required grade-point average the following quarter or fails to have an overall minimum grade-point average after two quarters will have disqualified him-/herself from the program.

Standard of student progress time frame or
 Students must complete their degree programs within the following maximum time frameworks from their initial enrollment in the program:

A.S. degree	3 years
B.S. degree	5 years
Master's degree	5 years
Doctoral degree	7 years

Dismissal Grievance
 A student who is involved in dismissal proceedings or who has an academic or clinical grievance may proceed as follows:

1. The student should first discuss the problem or grievance with the instructor. If, following discussion with the instructor, the student is not satisfied and continues to believe that s/he has not been dealt with fairly, the student may discuss the grievance with the chair of the department or with the program director involved.
2. If the matter is not resolved at this level, the student has recourse to the Office of the Dean.
3. As a final appeal, the student may request the dean to appoint a faculty review committee to evaluate the situation and make a recommendation to the dean. This request should be presented in writing and include pertinent information regarding the situation. The student may request to meet with the review committee for discussion of the case. The student must file for the grievance proceeding within one quarter following the alleged grievance. A grievance is ineligible for review if not filed within this time frame.

A A I I M S

A candidate for a degree shall have met the following conditions:

1. Completed all requirements for admission to the respective program, as well as all General Education requirements of the University.
2. Completed all requirements of the program, including specified attendance, level of scholarship, and number of credit units.
3. Completed a minimum of 96 quarter units for the associate degree or 192 quarter units for the baccalaureate degree, with a minimum grade-point average of 2.0 (2.5 for the Master of Occupational Therapy and the Master of Physical Therapy degree; 3.0 for the Doctor of Physical Therapy) and with no grade less than C (2.0).
4. Given evidence of moral character, of due regard for Christian citizenship, and of consistent responsiveness to the established aims of the University and of the respective discipline.
5. Discharged financial obligations to the University.

A A I C M I S

Graduation events include formal ceremonies identified as conferring of degrees, awarding of diplomas, and recognition of candidates for degrees. Other related graduation events include the bac-

calaureate and vesper services. The conferring of
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The Athleen Eeen olber Scholarship Award is given by the department to selected juniors in recognition of scholarship and promise of outstanding professional achievement.

The Lydia Sonnenberg Scholarship Award is presented annually to selected junior students. Selection is based on academic performance as well as demonstrated skill and interest in publishing nutrition information for the public.

The Martha Miller Scholarship Award is given annually to a sophomore or junior student based on scholarship, demonstrated financial need, and promise of outstanding professional achievement.

The Nutrition and Dietetics Alumni Association Scholarship Award is given annually to a senior student who has demonstrated outstanding academic performance and promise of expertise in professional achievement.

The Nutrition and Dietetics Faculty Award, presented to selected junior students, is based on scholarship, promise of professional achievement, and demonstrated financial need.

The Ruth Little Nelson Scholarship Award is presented to selected students in the junior year. Selection is based on scholarship; leadership; financial need; and such personal attributes as integrity, dependability, and initiative.

The Winifred Eanelt Schmitt Scholarship Endowment provides scholarships to nutrition and dietetics students who have demonstrated financial need, satisfactory progress toward a degree, and professional progress.

CCALH Award

The Daniel Alan Gibson Memorial Scholarship Award is given to MOT students based on financial need, and recognizes commitment to the practice of physical dysfunction/orthopedics in occupational therapy.

The Edinna Marshall Scholarship Award is given annually to MOT students based on financial need, and recognizes potential for leadership and education in the field of occupational therapy.

The Faculty Award is presented to a Master of Occupational Therapy degree student and to an occupational therapy assistant student who have shown promise of outstanding professional achievement and whose performance is in harmony with the objectives of the University.

The Inland Counties Occupational Therapy Association of California Award is presented to senior occupational therapy and occupational therapy assistant students in recognition of excellent academic and clinical performance.

The Lynn Arrateig Memorial Scholarship Award is given annually to an OTA or MOT student based on financial need, and recognizes commitment to the practice of pediatrics or geriatrics in the field of occupational therapy.

The Occupational Therapy Alumni Association Award recognizes outstanding scholastic and professional achievement in occupational therapy. The award is presented to a Master of Occupational Therapy degree student and an occupational therapy assistant student.

The Occupational Therapy Endowment Scholarship Award is given annually to OTA and MOT students based on scholarship, financial need, and promise of professional achievement.

The Rose Ucher Memorial Scholarship Award is given to MOT students based on financial need, and recognized commitment and creativity in the practice of occupational therapy.

The Southern California Consultants Scholarship Award, presented annually to two occupational therapy assistant students, is based on scholastic achievement and financial need.

SICALH Award

The Faculty Award is presented to a senior who has shown promise of outstanding professional achievement and whose performance is in harmony with the objectives and goals of the University.

The Red Moor Award is presented to a senior who has demonstrated exceptional clinical skills and knowledge in the care of physical therapy patients.

The Physical Therapy Alumni Association Achievement Award recognizes outstanding scholastic attainment and active participation in physical therapy student activities and community involvement.

The Physical Therapy Alumni Association Scholarship Award recognizes the student with the highest scholastic attainment in professional studies.

The Hon Hershey Student Endowment provides scholarship funds for students who demonstrate a financial need and exemplify the Christian qualities of love, patience, caring, humility, and a striving for excellence.

The Thomas Burke Memorial Scholarship Award recognizes the outstanding student in the pursuit of and dedication to a second career.

ALIAI CHL Award

The Faculty Award is given by the department in recognition of superior scholarship.

The Walter L Stilson Award is given to a student in each clinical facility who has shown promise of outstanding professional achievement and whose performance is in harmony with the objectives of the University.

SCHLA A AHL Award

The Evelyn Pittromising Student Award is presented to students preparing for graduate work in speech-language pathology and audiology. It recognizes students who show promise of scholastic and professional achievement.

The Outstanding Senior Award is given to a student who has performed well academically, developed good clinical skills, and contributed to creating a positive learning environment within the department.

ASAA Award

The Dean's Award is made annually in recognition of academic excellence and commitment to the objectives of the School.

CHACLLSAA Award

The Chancellor's Award, established in 1960 as the President's Award, is made annually in recognition of superior scholastic attainment and active participation in the student community, within the framework of Christian commitment. A recipient is selected from each school of the University.

International students

International students must be prepared to provide an advance deposit as required by the University and must provide documentation that additional funds will be forthcoming to meet school expenses. The deposit will be held by the University during the program of study and will be applied to the last quarter's tuition charge.

Scholarships and assistantships for international students are scarce, and employment is limited by regulations of the Immigration and Naturalization Service to no more than twenty hours per week. Unless special permission is given by immigration authorities, international students are restricted to employment on campus.

Veterans benefits

Under Title 38 of the U. S. Code, Loma Linda University is approved for the training of veterans and other eligible persons. Information regarding eligibility for any of these programs may be obtained by calling 1-888-GIBILL1 or 1-888-442-4551. Students receiving veteran's benefits, but who fail for three consecutive quarters to maintain the required cumulative grade-point average (G.P.A.) for graduation, will have their benefits interrupted; and the Veterans Administration (VA) office will be notified.

Application for benefits must be made directly to the VA and may be done via the web. The Office of University Records serves as the certifying official for Loma Linda University. Students should contact the certifying official prior to their first enrollment certification. For more information, open links to the VA web site ("Students" and "Prospective Students") on the LLU home web page at <<http://www.llu.edu>>.

Health service

All full-time students taking at least 7 paid units who have enrolled in the Student Health Plan through Risk Management are automatically covered by health-service provisions. Students enrolled for fewer than 7 units per quarter may request and pay for health-service coverage. Hospital and medical expenses outlined in the *Student Health Plan* booklet are covered. Items not covered by the terms of the plan are payable by the student in all cases, and payment is expected at the time these services are given. Students may purchase family coverage through the Department of Risk Management. (See also Student Health Plan paragraphs in the Student Life section of this BULLETIN.)

SCHOLARSHIP CHANGES
Due to the January Board of Trustees action

NOTE: Tuition rates are effective Summer Quarter through the following Spring Quarter.

Tuition information by department

Column 1	academic year/ class
Column 2	total units for academic year
Column 3	total tuition for academic year
Column 4	specified degree, certificate, full-time or part-time status, or transfer

	1	2	3	4
Communication Sciences	24		\$11,160	

Emergency Medical Care of Science	JR	37	\$13,764	
Emergency Medical Care of Science	SR	37	\$13,764	

Center for MS education and research (contact CEMSER department for instructor- and certificate-program tuition information)

Physician Assistant	1	56	\$26,040
	2	50	\$23,250
	3	12	\$ 5,580

Polysomnography, Certificate (contact department for tuition information)

Respiratory Care	1	45	\$16,740
	2	36	\$13,392

Respiratory Care	JR	52	\$19,344
	SR	59	\$21,948

Respiratory Care	New	50	\$18,600
	Cont.	4	\$ 1,488

Phlebotomy, Certificate	AHCJ 105	5	\$279 per unit (\$1,395 certificate)
	AHCJ 107	2	\$279 per unit (\$558 certificate)

Cytotechnology, Certificate	1	48	\$17,856	Certificate
	2	16	\$ 5,952	Certificate
	JR	48	\$17,856	B.S.
	SR	58	\$21,576	B.S.

Clinical Laboratory Science (formerly Medical Technology), Bachelor of Science	JR	60	\$22,320	
	SR	62	\$23,064	Track A, B, C

Health Information Systems, Master of Health Information Systems	1	37	\$17,205	full-time
	2	17	\$ 7,905	full-time
	1	18	\$ 8,370	part-time
	2	25	\$11,625	part-time
	3	11	\$ 5,115	part-time

Health Information Systems, Post Master's Certificate
Units and tuition vary depending upon units transferred into Loma Linda University

	1	2	3	4
Health Information Administration, Certificate				
Bachelor of Science				
JR	51		\$18,972	
SR	48		\$17,856	
Part-time: units and tuition vary.				

Health Information Administration, Health Information Technology HI, Progression				
Bachelor of Science				
JR	Units and tuition vary depending upon units transferred into Loma Linda University			
SR	Units and tuition vary depending upon units transferred into Loma Linda University			

Coding Specialist, Certificate				
1	10		\$ 1,810	
2	13		\$ 2,353	
3	6		\$ 1,086	

Diagnostic Technology, Associate in Science				
Soph	52.5		\$14,648	

Diagnostic Technology, Certificate				
Units and tuition vary depending upon units transferred into Loma Linda University				

Nutrition and Dietetics, Progression Bachelor of Science				
Bachelor of Science, Certificate				
JR	59.5	\$22,134	B.S.	
SR	45.5	\$16,926	B.S.	
Cert	Units and tuition vary depending upon units transferred into Loma Linda University			

CC A I A L H A				
Occupational Therapy Assistant, Associate in Arts				
1	51		\$14,229	
2	6		\$ 1,674	

Occupational Therapy, Progression				
Bachelor of Science				
Entry-Level Master of Occupational Therapy				
Postprofessional Master of Occupational Therapy				
Entry-Level M.O.				
JR	69	\$25,668		
SR	44	\$16,368		
Grad	36	\$13,392		
JR	65	\$24,180	Track	
SR	42	\$15,624	Track	
Grad	36	\$13,392	Track	
Progression M.O.T. (applies only to graduated LLU OTA students)				
	5		\$ 2,300	

Postprofessional M.O.				
Cert	Units and tuition vary depending upon units transferred into Loma Linda University			

PHYSICAL THERAPY				
Physical Therapist Assistant, Associate in Science				
1	57	\$15,903	regular	
2	6	\$ 1,674	regular	

Physical Therapy, Progression				
Entry-Level Master of Physical Therapy				
Entry-Level M.				
3	33.5	\$12,462		
Progression Master of Physical Therapy				
Postprofessional Master of Physical Therapy				

Progression M.				
1	81	\$30,132		
2	65.5	\$24,366		
3	8	\$ 2,970		

Postprofessional M.				
1	36	\$16,740		
2	9	\$ 4,180		

Physical Therapy, Progression				
Entry-Level Doctor of Physical Therapy				
Postprofessional Doctor of Physical Therapy				
Postprofessional Doctor of Physical Therapy Science				

Entry-Level D.				
1	83	\$32,453		
2	66.5	\$26,002		
3	33.5	\$13,099		
4	5	\$ 1,955		

Postprofessional D.				
1	36	\$16,740		
2	9	\$ 4,185		

Postprofessional D.				
1	36	\$16,740		

	1	2	3	4
radiologist Assistant, Bachelor of Science Bachelor of Science Certificate				
New		Units and tuition vary depending upon units transferred into Loma Linda University		
Cont		Units and tuition vary depending upon units transferred into Loma Linda University		

Diagnostic Medical Sonography, Certificate

New	17	\$ 7,905	Track 1
Cont 1	19	\$ 8,835	Track 1
Cont 2	3	\$ 1,395	Track 1
New	22	\$10,230	Track 2
Cont	1	\$ 465	Track 2

Medical Cosimetry, Certificate

New	33	\$ 15,345	Track A
Cont	4	\$ 1,860	Track A
New	27	\$ 12,555	Track B
Cont	3	\$ 1,395	Track B

Nuclear Medicine Technology, Certificate

New	15	\$ 6,975
Cont	3	\$ 1,395

Special Imaging Technology - C.M.I. Certificate

New	18	\$ 8,370
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SCHOOL OF ALLIED HEALTH PROFESSIONS

**Speech Language Pathology, Post Bachelor of
Science Certificate**

51	\$18,972
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**Speech Language Pathology Assistant, Associate
in Science
(contact department for tuition information)**

**Speech Language Pathology and Audiology,
Bachelor of Science**

AMI A I A M M SHI S

- ational and state fees
- § 80 California Interim Permit for Physician Assistants (initial application and fingerprint fees)
- 89 Clinical Laboratory Scientist License—California
- 145 Clinical Laboratory Scientist License—National Certifying Agency
- 145 Cytotechnology, ASCP Board of Registry
- 144 Cytotechnology License-California
- 80 Dietetic Technology, Registration Examination
- 125 Nutrition and Dietetics, Registration Examination
- 195 Health Information Management AHIMA Registry Examination (member)
- 245 Health Information Management, AHIMA Registry Examination (nonmember)
- 195 Health Information Management Certified Coding Associate (CCA)
- 250 Health Information Management Certified Coding Associate (CCA) through AHIMA (member)
- 275 Health Information Management Certified Coding Associate (CCA) through AHIMA (nonmember)
- 275 Health Information Management Certified Coding Specialist (CCS), through AHIMA (member)
- 320 Health Information Management Certified Coding Specialist (CCS), through AHIMA (nonmember)
- 275 Health Information Certified Coding Specialist Physician Based (CCS-P) through AHIMA (member)
- 320 Health Information Certified Coding Specialist Physician Based (CCS-P) through AHIMA (nonmember)
- 125 Medical Technology, ASCP Board of Registry—National
- 420 National Board for Certification in Occupational Therapy (NBCOT)
- 420 National Board for Certification in Occupational Therapy Assistant (NBCOT)
- 425 National Commission on Certification of Physician Assistant (NCCPA)
- 80 Phlebotomy Technician, ASCP Board of Registry National
- 54 Phlebotomy Technician License-California
- 687 Physical Therapist Assistant, California State Board and License
- 701 Physical Therapy, California State Board and License
- 125 Radiation Technology, American Registry

- 50 Radiation Technology, California License
- 190 Respiratory Therapy, NBRC National Certification
- 416 Respiratory Therapy, California State

Early application for financial aid

Applicants anticipating need of financial assistance should apply for aid early. It is not necessary to have received an acceptance letter for aid. Priority notification is given to those who have received an acceptance letter for financial aid.

We have a three-man team to insure that our operating systems support the SAHP--troubleshooter, Rajae Aree, works with Brandon Spurgeon who is responsible for the local area network (LAN). Both are under the supervision of Intithar Elias, Director of Computer Services.

radiation technology

MEDICAL RADIOGRAPHY—Associate in Science

RADIATION SCIENCES—Bachelor of Science

RADIATION THERAPY TECHNOLOGY—Bachelor of Science; Certificate

RADIOLOGIST ASSISTANT—Bachelor of Science; Post-Bachelor of Science Certificate

DIAGNOSTIC MEDICAL SONOGRAPHY: GENERAL/VASCULAR; CARDIAC; OR VASCULAR— Certificate

MEDICAL DOSIMETRY—Certificate

NUCLEAR MEDICINE TECHNOLOGY—Certificate

SPECIAL IMAGING TECHNOLOGY: CT/MRI (COMPUTED TOMOGRAPHY / MAGNETIC RESONANCE IMAGING)—Certificate

Speech Language Pathology and Audiology

SPEECH-LANGUAGE PATHOLOGY—Certificate

SPEECH-LANGUAGE PATHOLOGY ASSISTANT—Associate in Science

SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY—Bachelor of Science

ALI — CA I AL I C S

The following terms—laboratory, practicum, and affiliation—are used to describe the applied educational experiences during the course of professional training.

Laboratory

A laboratory is an application of theory and principles to real-life situations to develop skill and proficiency and a deeper understanding of the workings of theory.

Practicum

A practicum is a supervised practical application of theoretical studies to the clinical situation. Practica may occur concurrently with specific courses or may follow the completion of one or more theory courses.

Affiliation

An affiliation is a full-time experience in a clinical setting in which the student functions as a junior staff member with supervised, assigned responsibilities. The affiliation usually comes after the completion of all theoretical or preclinical studies; but in some instances, affiliations may also occur at the end of the junior year.

C I I — CA I

The School of Allied Health Professions offers continuing education. Information is available from the appropriate department.

C I C S S

AHC — Procedures in Phlebotomy
Designed for individuals who are interested in laboratory medicine and would like to become certified phlebotomists. Students trained in venipuncture and skin puncture. Medical terminology, laboratory safety, CPR, basic anatomy and physiology, specimen-collection techniques, hazards/complications, quality-assurance methods, and medicolegal issues of phlebotomy. Clinical rotation arranged at Loma Linda University Medical Center. CPR training and certificate arranged for students who are not already certified.

Corequisite: Current CPR certificate.

AHC — Advanced Phlebotomy
This course is designed for the working phlebotomist who needs to comply with California regulations. Topics include advanced techniques, complications, site selection, non-blood specimens, transport and processing, legal issues, and quality assurance. Program approved by the State of California, Department of Health Services-Laboratory Field Services.

AHC — Basic Communication Skills
Instruction in ESL communication skills necessary for successful engagement in college class discussions. Individual testing and interviews given to determine specific needs.

AHC — Communication Skills
Advanced ESL oral communication designed to provide students with the opportunity to develop and practice oral communication techniques in professional and academic contexts, e.g., research and case presentations. Additionally, overall non-native speech patterns facilitated within these contexts to increase speech intelligibility. Course may be repeated up to four times.

AHC — Fundamentals of Computer Systems
Fundamentals of computer technology: hardware, software, terminology, and concepts. Designed to give an understanding of how a computer works and the reasoning behind computer design. Lecture: 2 hrs per week. Lab: 1 hr per week.

AHC — Essentials of Human Anatomy and Physiology
Lecture and Laboratory
Study of the structure and function of the human body, including organ systems. (Prerequisite to many certificate and associate degree programs, e.g., coding specialist/certificate, occupational therapy assistant/ A.A.). Lecture and laboratory required.

AHC — Microbiology
Designed for students in the health sciences. History, classification, morphology, growth, control, transmission and pathology of selected bacteria, viruses, fungi, rickettsia, and parasites. Host defenses against microbial pathogens, including specific and nonspecific immunity. Lecture, thirty hours; laboratory, thirty hours
hours2 TtD-1,1sW3 0 0 ies,ica[(classifica9 over4 hp284 -1.11765 TD(

AHC 400 Adult Learning Styles
Theories and styles of learning; personality factors related to learning; implications of effective intellectual, emotional, and social functioning included within the context of structuring education for the adult learner. Analysis of the teaching process, including setting of objectives, selection of content, and design of classroom and clinical teaching strategies, with emphasis on alternatives to lecturing.

AHC 401 Anatomy
Gross and microscopic anatomy of the human body. Lecture, laboratory, dissection, demonstration, and slides. Orientation to the structure of various systems of the body. Basic medical terminology. (Successful completion of this course is essential for continuation in the program.)

AHC 402 Foundations of Health Information Systems
Survey course for students interested in pursuing a master's degree in health information systems, business majors, and others who anticipate working with databases and computer systems in health care settings. Course includes introduction to the vocabulary and the principles of health information systems, specifically, the value of information, reasons for adopting the systems approach, general systems theory, scope of a system, structure and classification of systems, and the systems life cycle.

Prerequisite: Introduction to computers.

AHC 403 Educational Psychology for Health Professionals
Psychological factors related to learning processes in professional and higher education. Emphasis on the role of communication skills in learning settings, gender influences on learning, objectives setting and course design, stimulation of higher-level thinking, motivation, and retention.

Prerequisite: AHCJ 409.

AHC 404 Physiology I
Physiology of the human body, including cellular, neuromuscular, cardiovascular, respiratory, gastrointestinal, renal, and endocrine physiology.

AHC 405 Physiology II
Detailed study of neuromuscular physiology.
Prerequisite: AHCJ 418.

AHC 406 Psychology of Physical Disability
Psychological reactions to illness or disability. Methods of dealing with these reactions considered with reference to the clinical situation. Seminar approach to professional responsibilities for health care.

AHC 407 Introduction to Computer Applications
Hands-on instruction in Word, Excel, and PowerPoint. Lectures, laboratory assignments, quizzes, projects, and a practical examination.
(Course not taught every quarter.)

AHC 408 Computer Applications
Review of current computer applications for health care professionals, including software/hardware for office management, graphics, educational presentations, literature acquisitions, and adaptive devices.
(Course may not be taught every quarter.)

Prerequisite: AHCJ 426 or demonstrated competency in content of AHCJ 426.

AHC 409 Database Management
Theories and steps of database development using Microsoft Access. Topics include but are not limited to: relationships, form building, advanced queries, reporting, and macros. Project creating a basic medical-information database from scratch required.
Lecture: 2 hr per week. Lab: 1-2 hr per week.

AHC 410 Special Projects in Computer Applications
Computer systems and applications designed to meet the specific professional needs and interests of the student. Emphasizes use of databases with health care data and on-systems design, as needed. Lecture: 2 hr per week. Lab: 1-2 hr per week.

Prerequisite: AHCJ 432 or consent of the instructor.

AHC 411 Neuroanatomy I
Basic anatomy and function of the central, peripheral, and autonomic nervous systems and related structures. Gross anatomy of brain and spinal cord. Functional consideration of cranial nerves, tracks, and nuclei of major systems. Lecture, slides, and laboratory with specimens.

AHC 412 Neuroanatomy II
Study of neuroanatomical systems, structures, and pathways, with application to lesions of the human nervous system.

AHC 413 Current Issues, National and Global Perspectives
Review and discussion of concerns relative to the health field, i.e., legislation, regulations, and professional organizations. Project or paper required.

AHC 414 Research Methods
Introduction to the scientific method in research. Focus on the major steps of the research process as

AHC - Advanced Clinical Experience 20 to 24 hours per term

AHC Advanced neurological rehabilitation

In-depth study of the patient with spinal cord injury, including etiology, current treatment techniques in acute and outpatient settings, and principles of exercise physiology. Review of research activities with regard to a cure for spinal cord injury, as well as the legal aspects of ADA and the individual with a spinal cord injury.

AHC Exercise and thermoregulation

Focus on energy sources utilized by the body for exercise, neural and mechanical structures of mechanisms that control body movements, environmental influences on exercise performance, and principles of aerobic and anaerobic exercise. Application of concepts and principles to normal and disabled human conditions.

AHC Health Care Financial Management 1

AHC Research I

Introduction to the scientific method in health-science research. Focuses on the major steps of the research process: problem identification, literature review, conceptual framework, identification of variables, statement of hypothesis, experimental design, and analysis and presentation of data. Includes critical evaluation of research literature. Application of-

SCHOOL OF ALLIED HEALTH PROFESSIONS MISSION AND GOALS, Portfolio Development Practicum

The School of Allied Health Professions conducts an evaluation program that includes courses, validation of writing, and standardized measures related to wholeness. The evaluation courses, Portfolio Practicum I and II and Graduate Portfolio are intended to be a means of integrating the wholeness concept into the lives of the students and of assessing the outcome of their educational process. The portfolio faculty and staff assist students in understanding and modeling the mission of Loma Linda University and the School of Allied Health Professions.

Each portfolio practicum is in progress for three-to-four quarters, during which time the student is developing a portfolio based on the fifteen goals of the School (see Section II, Mission and Goals). The final portfolio provides the student with an organized, goal-driven documentation of growth and achieved competence of abilities in a personal and professional realm of skills. An Associate in Science degree program student completes the one-year Portfolio Practicum; all other undergraduate students complete Portfolio Practicum I and II over a two-year period; each graduate student completes a graduate portfolio.

Portfolio is a tool by which students develop and personally achieve goals established by the School of Allied Health Professions.

Here to help are
Lolita Davidson, Ardis Wazdatskey (director of
evaluation and portfolio), and Bette Husted.



ALLIED HEALTH STUDIES ADMINISTRATIVE STAFF

(left to right, top to bottom):

- Beverly deForest, Assistant to the Dean;
- Pamela Reed, administrative secretary, dean's office;
- Karen Granberg, DPTSc Student Research Dept. TA;
- Karen Rieley, administrative secretary, marketing;
- admissions office staff:
- Emmalein Dharmaraj, Leah Natividad-Beck, and Shirley Sing.

ALLIED HEALTH STUDIES

The Department of Allied Health Studies provides a variety of administrative and support services to the School's academic departments, including: development, marketing, admissions, computer support and training, portfolio, and financial services. In addition, the Department of Allied Health Studies supports programs offered

HEALTH SCIENCES Bachelor of Science

KEIKO KHOO, Program Director

AM I S C I
 H A L H S C I C , Bachelor of Science

L C C I C L M

S H M A April March

AHCJ	252	Human Anatomy and Physiology	4*
AHCJ	326	Patient-Care Methods	2*
AHCJ	351	Statistics for the Health Professions	3*
AHCJ	419	Physiology II	3*
RELF	440	World Religions	2-3

or concentration only

OCTH	314	Task Analysis	2*
OCTH	315	Therapeutic Media	2*
OCTH	331	Functional Kinesiology	3*

or concentration only

PHTH	437	Therapeutic Procedures	3*
PHTH	438	Manual Muscle Testing	3*

I A April March

HA ILI A I SCI C , Doctor of hilosophy

GRENGTH J. ZIMMERMAN, Associate Dean of Research and Statistics, Program Director for
Doctor of Philosophy, Rehabilitation Science Program

The Graduate School, in cooperation with the School of Allied Health Professions, offers the Doctor of Philosophy degree in rehabilitation science. The degree program by design is inclusive of the many rehabilitation professions, and offers opportunities for qualified clinical professionals in allied health to prepare for careers in independent research, teaching, and administration. It is the goal of this program to prepare graduates who will:

- provide vision and direction for the integration of the rehabilitation professions;
- commit themselves to whole-person care;
- advance the theory and practice of rehabilitation science through research;
- acquire and integrate knowledge related to the social and basic medical sciences; and
- assess, develop, and implement interdisciplinary community-based services.

The Allied Health Professions

— A M S A — A M S H S C H L

The sections that follow give the setting for each of the programs offered by the School of Allied Health Professions. In each department the subject and unit requirements for admission and for the professional programs are outlined, and the courses offered are described.

MEET THE DEAN OF OUR SCHOOL, Craig Jackson (center), and those he refers to as “my team” (left) administrative assistant, Pamela Reed, and Beverly deForest, Assistant to the Dean.

CALIFORNIA EMERGENCY MEDICAL SCIENCES

EMERGENCY MEDICAL SCIENCES, Certificate

EMERGENCY MEDICAL SCIENCES, Certificate, Bachelor of Science, Postprofessional Bachelor of Science

EMERGENCY MEDICAL SCIENCES, Master of Physician Assistant

EMERGENCY MEDICAL SCIENCES, Bachelor of Science

ROBERT L. WILKINS, Department Chair

JEFF T. GRANGE, Medical Director for Bachelor of Science, Emergency Medical Care Program

EHREN B. NGO, Program Director for Bachelor of Science, Emergency Medical Care;
Director, Center for Emergency Medical Services Education and Research (CEMSER)

TRACI L. MARIN, Director of Clinical Education for Bachelor of Science, Emergency Medical Care

KENRICK C. BOURNE, Program Director for Master of Physician Assistant, Physician Assistant

BENNY HAU, Medical Director for Master of Physician Assistant, Physician Assistant Program

ALLAN M. BEDASHI, Didactic Coordinator for Master of Physician Assistant, Physician Assistant Program

YASMIN C. BRACHO, Assistant Clinical Coordinator for Master of Physician Assistant, Physician Assistant Program

GERALD A. GLAVAZ, Clinical Coordinator for Master of Physician Assistant, Physician Assistant Program

ACMIS CMMI
Master of Science

Gail Dodge
Jeff Grange
Jim T. Holbrook
Craig R. Jackson*
Traci L. Marin
Sarah Momsen
Ehren B. Ngo
Joshua Stapleton
Tamara L. Thomas

ACMIS CMMI
Master of Physician Assistant

Lisa M. Beardsley
Allan M. Bedashi
Kenrick C. Bourne
Lane Braver
Mark Carr
Shirani de Alwis-Chand
Kent Chow
Neal Dixon
Gerald A. Glavaz
Helen R. Greenwood
Benny Hau
Craig R. Jackson*
Cliff Reeves
Gail T. Rice
Richard Rouhe
Robert L. Wilkins
Grenith J. Zimmerman

ACMIS CMMI
Master of Science

For tuition information, please see section II,
Financial Information.

L S M A H , Certificate

The Department of Cardiopulmonary Sciences in the School of Allied Health Professions and the Department of Respiratory Care at Loma Linda University Medical Center are developing an education program in polysomnography. The program will be available beginning 2004 and will lead to a certificate in polysomnography.

Sleep apnea affects approximately 4 percent of women and 9 percent of men. Polysomnography is used by highly skilled therapists to diagnose patients with this disorder. Students accepted into the program will be graduates of accredited A.S. degree programs in respiratory care who are licensed to practice in the state of California. Classes and clinical rotations will be taken at Loma Linda University Medical Center and Jerry L. Pettis Memorial Veterans Medical Center in Loma Linda, which have two adult sleep centers and one pediatric sleep center currently operating. Students who gain further clinical experience will be eligible to sit for the board examination in polysomnography.

For more information, please contact the Department of Cardiopulmonary Sciences.

Representing the Department of Cardiopulmonary Sciences and its Respiratory Therapy, Emergency Medical Care, and Physican Assistant programs are:
(from left to right) David Lopez, Gerald Glavaz, Barbara Parton, Traci Marin, Beverley Stocker, Bud Spearman, Bob Wilkins- department chair, Allan Bedashi, Ken Bourne, Benny Hau, Arthur Marshak, Ehren Ngo, Denise Marnella, Dave Stanton, and Yasmin Bracho.

S I A I CA

Respiratory care is an allied health profession that promotes health and improvement in the cardiopulmonary function of people with heart and lung abnormalities and disease. Newborn, pediatric, adult, and elderly patients are treated for a wide range of problems—infant respiratory distress syndrome; trauma; cardiopulmonary arrest; conditions brought on by shock; postoperative surgical complications; and respiratory diseases such as pneumonia, asthma, cystic fibrosis, chronic bronchitis, and emphysema.

The respiratory care practitioner is a member of the health care team in medical centers, skilled-nursing facilities, outpatient rehabilitation programs, physician offices, and in-home care. Many are involved in research and development of new and innovative care and equipment. They are effective communicators and compassionate caregivers, possessing an awareness of cultural sensitivity and diversity. They have leadership roles in patient

RESPIRATORY CARE Certificate

CRITERIA

Students are required to have current cardio-pulmonary resuscitation (CPR) certification (adult and child) for all scheduled clinical experience. Classes are available on campus at Life Support Education, University Arts, 24887 Taylor Street, Suite 102.

ADMISSION

To be eligible for admission, the applicant must have completed a minimum of 96 quarter units (64 semester units) from an accredited college or university, or its equivalent from a foreign education program.

- Prerequisites for Respiratory Care Certificate
- Human anatomy and physiology or general biology with laboratory, complete sequence
- Microbiology with laboratory
- Introductory chemistry with laboratory, complete sequence; or general chemistry with laboratory, complete sequence
- High school-level physics or introductory physics, one quarter/semester in college; or general physics, one quarter/semester in college

Two years of mathematics selected from: algebra I (elementary), algebra II (intermediate), or geometry. Course work may be taken in high school or college.

- General psychology
- English composition, complete sequence
- Introduction to computers (high school or college)
- Recommended course or
- Speech

Required minimum grade
All course work must have a grade of C (2.0) or better.

RESPIRATORY CARE

Upon completion of the program, graduates are eligible to pursue all credentialing examinations offered by the National Board for Respiratory Care (NBRC). Inquiries to NBRC can be made to 8310 Nieman Road, Lenexa, KS 66214-1579; telephone 913/599-4200; email: nbrc-info@nbrc.org or Web site <<http://www.nbrc.org>>.

RESPIRATORY CARE

RESPIRATORY CARE Certificate

Course or to be taken while in the		
S degree program		
RSTH 304	Cardiopulmonary Anatomy and Physiology	4
RSTH 323	Pulmonary Function Methodology	3
RSTH 331	Pharmacology I	2
RSTH 332	Pharmacology II	2
RSTH 334	Patient Assessment	2
RSTH 341	Respiratory Therapy Science I	5
RSTH 342	Respiratory Therapy Science II	5
RSTH 343	Respiratory Therapy Science III	4
RSTH 354	Case Studies in Adult Respiratory Care	2
RSTH 366	Diagnostic Techniques	3
RSTH 381	Cardiopulmonary Diseases I	2
RSTH 382	Cardiopulmonary Diseases II	2
RSTH 391	Respiratory Care Practicum I	2
RSTH 392	Respiratory Care Practicum II	2
RSTH 393	Respiratory Care Practicum III	4
RSTH 404	Critical Care	4
AHCJ 305	HIV/AIDS and the Health Provider	1
AHCJ 311	Medical Terminology I	2
AHCJ 326	Patient-Care Methods	2
EMMC 316	12-Lead ECG Interpretation	2

RSTH	421	Perinatal and Pediatric Respiratory Care	2
RSTH	422	Advanced Perinatal and Pediatric Respiratory Care	2
RSTH	424	Exercise Physiology and Pulmonary Rehabilitation	3
RSTH	434	Advanced Patient Assessment	2
RSTH	441	Respiratory Therapy Science IV	3
RSTH	444	Case Studies in Neonatal/Pediatric Respiratory Care	2
RSTH	494	Respiratory Care Practicum IV	2
RSTH	495	Respiratory Care Practicum V	2
RSTH	496	Respiratory Care Practicum VI	3
EMMC	315	Cardiology	3
RELE	457	Christian Ethics and Health Care	2

Applicants who have comparable education or experience may be able to gain credit toward the certificate by equivalency examination or evaluation of credit on an individual basis. Loma Linda University reserves the right addto assess the respiratory care knowledge base and competencies of each applicant by assessment examination(s).

A Loma Linda University grade point average of C (2.0) is required for all courses in the program (see section V).

Respiratory Care BS students, Paula Hizon and Mathew Cabreza
 pictured above working in the laboratory with the mechanical ventilator.

S I A CA Bachelor of Science

Loma Linda University offers two Bachelor of Science degree programs in respiratory care. The first program is for students who have had no previous education in respiratory care and who have completed the program prerequisites listed below.

H AM

The two-year, upper-division program leading to the Bachelor of Science degree is a sequence of professional course work intended to prepare competent respiratory therapists with advanced abilities in clinical care. Course work may be designed toward meeting entrance requirements for the dentistry, medicine, and physician assistant programs.

H AM C I S

Upon completion of the program, the graduate should:

1. Collect and review pertinent clinical information and suggest and implement diagnostic procedures according to age-specific criteria.
2. Select, obtain, assemble, maintain, and correct malfunctions on all respiratory therapy equipment.
3. Administer medications via aerosol, subcutaneous, and other appropriate routes of delivery, according to age-specific criteria.
4. Apply current and advanced respiratory care concepts and treatment plans in the areas of ventilatory support systems (invasive and non-invasive), medical gas therapy, gas-exchange therapy, airway care, and advanced resuscitation techniques, according to age-specific criteria.
5. Assist the physician in the performance of all diagnostic or therapeutic procedures related to cardiopulmonary function.
6. Function as an efficient member of the interdisciplinary team.
7. Demonstrate advanced knowledge and clinical skill in specialty areas selected from—
 - neonatal/pediatric critical care
 - adult critical care
 - cardiopulmonary diagnostics
 - hyperbaric medicine
 - sleep disorders medicine
 - cardiopulmonary rehabilitation
 - extended care

C C I I C A I

Students are required to have current cardiopulmonary resuscitation (CPR) certification (adult and child) for all scheduled clinical experience. Classes are available on campus at Life Support Education, University Arts, 24887 Taylor Street, Suite 102.

A MISSI

- prerequisites for respiratory Care S
- 20 units minimum in humanities (choose minimum of two areas from: history, literature, philosophy, foreign language, art/music appreciation or art/music history)
 - Included in this minimum, 4 units of religion per year of attendance at a Seventh-day Adventist college or university
- Human anatomy and physiology with laboratory, complete sequence; **or** general biology with laboratory, complete sequence
- Microbiology with laboratory
- Introductory chemistry with laboratory, complete sequence; **or** general chemistry with laboratory, complete sequence
- High school-level physics **or** introductory physics, one quarter/semester in college; **or** general physics, one quarter/semester in college
- Two years high school mathematics with grades of C or above **or** intermediate algebra in college
- General psychology **or** sociology
- Cultural anthropology **or** an approved course dealing with cultural diversity
- Select 4 more quarter units from sociology, economics, geography, political science, psychology
- English composition, complete sequence
- Speech
- Computers
- Personal health **or** nutrition
- Two physical activity courses
- Electives to meet minimum total requirements of 96 quarter units

or total unit requirements for graduation, see Division of General Studies, LLU NAL DUCA ION • UI M N De, tion V .

		AM I S C I	
		CA	Bachelor of Science
			degree program
RSTH	304	Cardiopulmonary Anatomy and Physiology	4
RSTH	323	Pulmonary Function Methodology	3
RSTH	331	Pharmacology I	2
RSTH	332	Pharmacology II	2
RSTH	334	Patient Assessment	2
RSTH	341	Respiratory Therapy Science I	5
RSTH	342	Respiratory Therapy Science II	5
RSTH	343	Respiratory Therapy Science III	4
RSTH	354	Case Studies in Adult Respiratory Care	2
RSTH	366	Diagnostic Techniques	3
RSTH	381	Cardiopulmonary Diseases I	2
RSTH	382	Cardiopulmonary Diseases II	2
RSTH	391	Respiratory Therapy Practicum I	2
RSTH	392	Respiratory Therapy Practicum II	2
RSTH	393	Respiratory Therapy Practicum III	4
RSTH	404	Critical Care	4
AHCJ	305	HIV/AIDS and the Health Provider	1
AHCJ	311	Medical Terminology I	2
AHCJ	326	Patient-Care Methods	2
AHCJ	328	Portfolio Practicum I	1
AHCJ	402	Pathology I	4
AHCJ	403	Pathology II	3
EMMC	316	12-Lead ECG Interpretation	2
REL_	—	Religion elective	2
RSTH	421	Perinatal and Pediatric Respiratory Care	2
RSTH	422	Advanced Perinatal and Pediatric Respiratory Care	2
RSTH	424	Exercise Physiology and Pulmonary Rehabilitation	3
RSTH	434	Advanced Patient Assessment	2
RSTH	441	Respiratory Therapy Science IV	3
RSTH	444	Case Studies in Neonatal/Pediatric Respiratory Care	2
RSTH	464	Case Management in Respiratory Care	2
RSTH	466	Advanced Diagnostic Techniques	2
RSTH	471	Instructional Techniques I	2
RSTH	474	Cardiopulmonary Health Promotion and Disease Prevention	2
RSTH	481	Research in Cardiopulmonary Sciences	1
RSTH	494	Respiratory Care Practicum IV	2
RSTH	495	Respiratory Care Practicum V	2
RSTH	496	Respiratory Care Practicum VI	3
AHCJ	351	Statistics for the Health Professions	3
AHCJ	461	Research Methods	2
AHCJ	465	Seminars in Leadership	2
AHCJ	498	Portfolio Practicum II	1
EMMC	315	Cardiology	3
RELE	457	Christian Ethics and Health Care	2
REL_	—	Religion elective	2
REL_	—	Religion elective	2

A minimum of 192 quarter units are required for the Bachelor of Science degree in respiratory care.

H AM

Two years high school mathematics with grades of C or above or intermediate algebra in college
 General psychology or sociology
 Cultural anthropology or an approved course dealing with cultural diversity
 Select 4 more quarter units from sociology, psychology, economics, geography, political science
 English composition, complete sequence
 Speech

Computers
 Personal health or nutrition
 Two physical activity courses
 Electives to meet minimum total requirements of 96 quarter units

or total unit requirements for graduation, see Division of General Studies, LLU N A L D U C A I O N • U I M N D e, tion V .

AM I S C I
S I A CA Postprofessional Bachelor of Science core

all quarter			
RSTH	301	Advanced Respiratory Therapy Science	3
RSTH	422	Advanced Perinatal and Pediatric Respiratory Care	2
RSTH	434	Advanced Patient Assessment	2
AHCJ	305	HIV/AIDS and the Health Provider	1
AHCJ	328	Portfolio Practicum I	1
AHCJ	351	Statistics for the Health Professions	3
AHCJ	465	Seminars in Leadership	2
AHCJ	498	Portfolio Practicum II	1
RELF	406	Adventist Beliefs and Life	2
inter quarter			
RSTH	424	Exercise Physiology and Pulmonary Rehabilitation	3
RSTH	431	Senior Project I	2
RSTH	451	Respiratory Care Affiliation I	2
RSTH	466	Advanced Diagnostic Techniques	2
RSTH	471	Instructional Techniques I	2
AHCJ	402	Pathology I	4
AHCJ	461	Research Methods	2
Spring quarter			
RSTH	432	Senior Project II	2
RSTH	464	Case Management in Respiratory Care	2
RSTH	481	Research in Cardiopulmonary Sciences	1
EMMC	315	Cardiology	3
EMMC	316	12-Lead ECG Interpretation	2
AHCJ	403	Pathology II	3-4
RELE	457	Christian Ethics and Health Care	2
Summer quarter			
RSTH	433	Senior Project III*	4
Electives			

*The Senior Project is a culminating body of work, developed by the student in consultation with the program director and presented to the department faculty. Work may be a research paper, clinical presentation, management project, or other project approved by the program director.

PHYSICIAN ASSISTANT, Master of Physician Assistant

Physician assistants (PAs) are health professionals licensed to practice medicine under physician supervision. Physician assistants are qualified by graduation from an accredited physician assistant educational program and by certification by the National Commission on Certification of Physician Assistants. Within the physician/PA relationship, the PA exercises autonomy in medical decision making and provides a broad range of diagnostic and therapeutic services. The clinical role of a PA includes primary and specialty care in medical and surgical settings in rural and urban areas. The PA's practice is centered on patient care and may also include educational, research, and administrative activities.

DESCRIPTION

Loma Linda University offers a professional course of study leading to the Master of Physician Assistant (M.P.A.) degree. The program consists of a twelve-month didactic phase that provides a foundation of biological, behavioral, and medical sciences. This is followed by a twelve-month clinical phase of clerkships in a variety of medical specialties designed to provide diverse and intensive patient-care experience. Graduate physician assistants are professionals trained to participate as members of a health care team. They are prepared to manage common health care needs typically encountered in primary-care settings.

Accreditation

The program is fully accredited by the Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC/PA).

ADMISSIONS

Upon completion of the program, the graduate will be qualified to:

1. Obtain detailed and accurate patient histories.
2. Perform appropriate physical examinations.
3. Evaluate patients and make diagnoses.
4. Order, perform, and interpret diagnostic tests.
5. Order and perform selected therapeutic procedures.
6. Develop, implement, and monitor patient-management plans.
7. Present patient data in oral and written forms.
8. Provide continuity of patient care.
9. Assist in surgical procedures.
10. Perform life-saving procedures in emergency situations.
11. Counsel and instruct patients regarding issues of health care management, mental health, therapeutic regimens, normal growth and development, and family planning.
12. Refer patients to appropriate health/mental/social service agencies in the community.

13. Write drug orders.
14. Conduct a medical literature search.
15. Conduct an investigation of a medical, health, or psychosocial topic; perform a statistical evaluation; and present data in appropriate oral and written formats.

COURSES

Students are required to have current cardiopulmonary resuscitation (CPR) certification (adult and child) for all scheduled clinical experience. Classes are available on campus at Life Support Education, University Arts building, 24887 Taylor Street, Suite 102.

ADMISSIONS

1. A baccalaureate degree is required for admission to the Master of Physician Assistant Program:
 - A baccalaureate degree in health care or life sciences is preferred.
 - A baccalaureate degree in any field PLUS a certificate in a health related field is acceptable.
 - All degrees must be from accredited institutions.
2. College level pre-requisite courses:
 - Human Anatomy & Physiology with laboratory (complete sequence)
 - Introductory Chemistry with Laboratory, complete sequence (Inorganic, Organic, and Biochemistry), OR one year of General Chemistry with laboratory.
 - Microbiology with laboratory
 - General Psychology
 - General Sociology OR Cultural Anthropology
 - College Algebra
 - English, one year (freshman composition and literature)

3. Recommended:
 - Statistics
 - Medical Terminology
 - Computer Literacy
4. We grant preference to:
 - applicants with documented health care experience
 - Seventh-day Adventists
 - Graduates of Loma Linda University
 - Applicants from under-represented populations
 - Applicants with documented community service
5. An overall GPA of 3.0 or above and a Sci. GPA of 3.0 or above on a 4.0 scale.
6. Submit your application through CASPA. Three letters of recommendation are required. One must be from a practicing M.D., D.O. or P.A.
7. How to apply: All prospective students must apply through the Central Application Service for Physician Assistant Programs (CASPA) <http://www.caspaonline.org> or call 240/497-

The students in our Master of Physician Assistant program are nurtured by Dr. Benny Hau, Medical Director; Allan Bedashi, Didactic Coordinator; Dr. Ken Bourne, Program Director; Yasmin Bracho, Assistant Clinical Coordinator; and Gerry Glavaz, Clinical Coordinator, among others, to become the outstanding P.A.'s synonymous with the name Loma Linda University.

FACES OF THE PHYSICIAN ASSISTANT PROGRAM
Department of Cardiopulmonary Sciences

(clockwise from 12) administrative secretary, Beverley Stocker, and secretary, Melody Chambers, efficiently work together to make sure the mechanics of the PA program run smoothly; taking a much needed break from their rigorous schedule are students, Sophia Johansen and Tricia Sol; here at seven every morning, Kim Hamilton and Stephanie Powers have developed the perfect study buddy system; busy, busy, busy, Program Director, Dr. Kenrick Bourne; always with a smile on her face, Yasmin Bracho helps make sure student affiliation sites are available.

AM I S C I
PHYSICIAN ASSISTANT, Master of Physician Assistant

The program of instruction outlined as follows is for students enrolled during the 2004-2005 academic year.

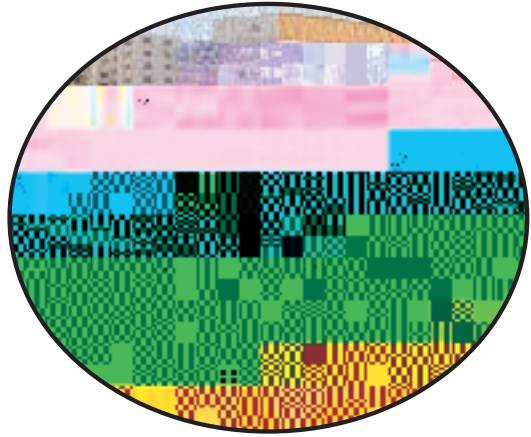
I S A A M			
PAST	401	Anatomy and Physiology I	3
PAST	404	Biochemistry for PAs	3
PAST	406	Clinical Laboratory	2
PAST	509	Behavioral Science for PAs	3
PAST	521	Research I	3
AHCJ	305	HIV/AIDS and the Health Provider	1
AHCJ	519	Graduate Portfolio	1
RELE	505	Clinical Ethics	3
S C A I			
PAST	402	Anatomy and Physiology II	3
PAST	411	Pathology for PAs I	3*
PAST	421	Pharmacology for PAs I	3
PAST	501	Clinical Medicine for PAs I	5
PAST	514	Physical Diagnosis I	3
PAST	522	Research II	2
AHCJ	519	Graduate Portfolio	(in progress)
H I A S I			
PAST	403	Anatomy and Physiology III	3
PAST			

Center for Emergency Medical Services Education and Research

LEON B. NOLAN, Director

ADMINISTRATIVE COMMITTEE

Ruel A. Alipoon
Jeff T. Grange
Ehren B. Ngo



The Emergency Medical Care (EMC) Bachelor of Science degree program, Life Support Education (LSE), and the LLUMC Emergency Department (ED) contribute to the Center for Emergency Medical Services Education and Research (CEMSER). CEMSER provides these three constituents and the emergency and critical care community with access to resources needed to advance research and educational goals. CEMSER's primary affiliation is with the School of Allied Health Professions.

MISSION STATEMENT

The Center for Emergency Medical Services Education and Research seeks to advance the mission and goals of Loma Linda University within the prehospital and critical care communities by:

- Providing emergency and critical care health care providers with access to quality Christian education that focuses on personal, spiritual, intellectual, and professional development.
- Providing and expanding comprehensive and ethical research focused on fostering professionalism, leadership, and quality patient care.
- Developing leaders with decision-making skills that reflect spiritual, moral, ethical, and compassionate insight.
- Developing and enhancing managers capable of addressing the needs of today's dynamic health care industry with regard to finance, human-resource management, and quality patient care.
- Fostering compassion and patient advocacy among emergency health care providers.

EMERGENCY MEDICAL CARE (EMC) Bachelor of Science degree program

The two-year EMC B.S. degree program is open to the EMT, paramedic, RN, or respiratory therapist who has completed two years of undergraduate work. (See additional admission requirements and program information on page 80.)

LIFE SUPPORT EDUCATION

Life Support Education offers basic and advanced classes related to cardiac emergency care, as listed below. Life Support Education is in the University Arts building located at 24887 Taylor Street, Suite 102, Loma Linda, CA 92350; telephone (909) 558-4977.

Basic Life Support Course

Teaches health care providers how to manage a cardiopulmonary-arrest victim with the basics of CPR, including chest compression, mouth-to-mouth, or bag-valve ventilation and automated external defibrillation.

- Basic Life Support
- Basic Life Support Instructor
- Basic Life Support Renewal

Advanced Cardiac Life Support (ACLS)

Teaches health care providers how to manage a cardiopulmonary-arrest victim with cardiac medication, defibrillator, chest compression with ventilations, and endotracheal intubation.

- Advanced Cardiac Life Support
- Advanced Cardiac Life Support Instructor
- Advanced Cardiac Life Support Renewal

Pediatric Advanced Life Support (PALS)

Teaches health care providers how to manage a cardiopulmonary-arrest child or infant with medications, endotracheal intubation, defibrillation and chest compressions with ventilations.

- Pediatric Advanced Life Support
- Pediatric Advanced Life Support Instructor course
- Pediatric Advanced Life Support Renewal

Neonatal Resuscitation Program

Teaches the health care provider how to manage and resuscitate a newborn infant having life-threatening cardiopulmonary problems.

- Neonatal Resuscitation Provider
- Neonatal Resuscitation Provider Instructor
- Neonatal Resuscitation Provider Renewal

HeartSaver Automated External Defibrillator (AED)
Teaches the lay person or health provider how to use the AED in conjunction with CPR.

- Automatic External Defibrillation

EMERGENCY DEPARTMENT

The Emergency Department offers basic and advanced education related to emergency care, as listed below:

Grand Rounds and Lectures

- Grand Rounds
- Lectures for Emergency Medicine Residents

Management and paramedic continuing education, trauma life support, leadership, certification, and other offerings

- Critical Care Transport
- National Registry EMT Refresher Program
- National Registry Paramedic Refresher Program
- Paramedic Skills Update
- Basic Trauma Life Support
- Clinical Preceptor Training Certificate
- Leadership Certificate Courses
- ICEMA (Inland Counties Emergency Medical Agency) Protocol Update
- Field-Care Audits
- Wilderness Medicine Certificate
- Mass Gathering Certificate

CONTACT INFORMATION

For more information on course offerings, please contact CEMSER at:

Center for Emergency Medical Services
Education and Research
Nichols Hall, Room 92
Loma Linda University
Loma Linda, CA 92350
(909) 551-0100 phone
(909) 551-0100 FAX



||

Open to LLU students and LLUMC employees, and available to individuals and groups from the surrounding communities, Life Support Education classes are coordinated with the help of Ruel Alipoon (director), Janine Davis, and Monica Noutfia.

C S _SC I I

The Advanced Cardiac Life Support (ACLS) is designed to reevaluate medical professionals as ACLS providers and to increase their skills in the management of cardiac arrest, airway management, and arrhythmia recognition. The lectures, workshops and tests adhere to the guidelines of the American Heart Association. Participants will gain hands-on experience in code management.

C S C I S

At completion of the course, participants will be able to demonstrate proficiency according to American Heart Association standards in the areas of:

- Adult CPR
- Mouth to Mask Ventilation
- Esophageal obturator airway placement
- Endotracheal Intubation
- Basic Arrhythmia recognition and therapeutic treatment
- Function as a team leader in a Mega Code situation including patient assessment, arrhythmia recognition and treatment, supervision of team members, and problem solving.

Prerequisites

- Candidate must be a healthcare provider whose activities demand proficiency in ACLS skills.
- Participants must study the textbook prior to class attendance.

Registration

Applicants must send the registration form along with payment. Please register at least 2 weeks

before course date. Registration closes when classes are full.

C I I _CA I I S

An ACLS card will be issued upon successful completion of the course. The ACLS Provider Course and ACLS Renewal Course is Approved by the California Board of Registered Nursing, Provider number CEP 10403, and constitutes eligibility for 16 hours of CE credit for the ACLS Provider and 8 CE credits for ACLS Renewal Course.

C S MA IALS

There is a textbook required for this course. Pre-course materials and textbook can be picked up at Life Support Education. The price of the book will vary from year to year. If you have any questions regarding materials please call (909) 558-4977.

Additional Fees

\$ 10.00 CME credits fee for the following: (Physicians, Dentists only)

\$ 25.00 Rescheduling fee

\$ 25.00 Retesting Fee if testing is failed

\$ 25.00 Processing fee for refunds

Life

A 7 day notice is required for any cancellation or rescheduling. If there is an emergency or you are called into work please let us know. A \$25.00 processing fee will be charged for refunds.

siderations unique to age. Management of geriatric trauma, medical emergencies, and the impact of chronic diseases. Establishing a social response to aging and viable health care delivery models for older adults.

MMC Health Care Management for rehospitalizers

Basic principles of management and how they relate to EMS systems. Federal, state, and local authority for EMS delivery and services, resources for and constraints of EMS systems, relationship to and impact on public safety and health care-delivery systems, interface of public and private organizations, current and future issues.

MMC Seminars in EMS Management I

Management theories applied to EMS management and practice. Public/private sector integration, public/media relations, government relations, stress management, management/leadership-skills development, decision making, performance improvement.

Prerequisite: EMMC 451.

MMC Seminars in EMS Management II

Further application of management theories to EMS management and practice. The quality management process and its relationship to continuous learning, promoting organizational/system change, evaluating effectiveness of performance-improvement projects, strategic planning, and integration of EMS with public safety and public health.

Prerequisite: EMMC 451 and EMMC 452.

MMC Senior Project I

Students develop, implement, and evaluate project for in-depth experience in area of choice. May include research; community projects; and/or education, management, or clinical affiliations. Students work under direct supervision of assigned faculty mentor.

MMC Senior Project II

Continuation of project developed in EMMC 471.

Prerequisite: EMMC 471.

MMC Legal Issues in Health Care

Introduction to the legal system as it pertains to health care professionals. Concepts of malpractice, litigation, consent for and refusal of medical treatment, advanced directives, and patient confidentiality. Discussion of employment issues, including discrimination and sexual harassment. Development of health and safety programs per OSHA regulations, risk management, legal issues in vehicle operations and equipment, and EMS and law-enforcement interactions.

MMC Senior Seminars

Discussion of issues of professionalism, portfolio development and refinement, short- and long-term goal setting, and development of resume/curriculum vitae.

Prerequisite: Senior-level academic status.

Enrollment in AS courses is limited to Physician Assistant program students

AS I, II, III Anatomy and Physiology

Gross and microscopic anatomy of the human body. Lecture, laboratory with cadaver dissection, demonstration, and slides. Orientation to structure of various systems of the body.

Prerequisite: Series to be taken in sequence.

AS Biochemistry for As

Chemistry and metabolism of carbohydrates, lipids, nucleic acids, and proteins. Chemical basis of life processes. Lecture and laboratory demonstrations to support student competency.

AS Clinical Laboratory

Provides the physician assistant student with an overview of clinical laboratory procedures and operations. Emphasis on interpretation and clinical significance of commonly ordered laboratory tests. Observation and performance of laboratory testing routinely performed in primary-care offices and hospital laboratories. Lecture and laboratory. Laboratory exposure provided in a clinical laboratory setting.

AS Pathology for As I

Fundamental mechanisms of disease, including cell injury, inflammation, repair, regeneration, and fibrosis; vascular, cardiac, respiratory, gastrointestinal, hepatobiliary, urinary, reproductive, endocrine, and integumentary pathologies. One hour per week participation in differential diagnosis seminar required.

AS Pathology for As II

Fundamental mechanisms of disease, including the central and peripheral nervous systems; bones and joints; skeletal muscle; developmental, genetic, infectious, and parasitic pathologies; and neoplasia. Two autopsy observations with written report, and one hour per week participation in differential diagnosis seminar required.

AS Pharmacology for As I

Part I of a two-part course that covers basic concepts of pharmaceuticals used in diagnosis, prevention, and treatment of disease. Systematic presentation of the pharmacology and therapeutic value of drugs used in medicine. Related topics—with special consideration of pediatric and geriatric pharmacology—include drug legislation, PDR, routes of administration, pharmacokinetics, pharmacodynamics, adverse effects, drug interactions, and drug toxicity. Overview of physician assistant's responsibilities in prescribing and/or dispensing pharmaceuticals.

AS Pharmacology for As II

Part II of a two-part course that covers basic concepts of pharmaceuticals used in diagnosis, prevention, and treatment of disease. Systematic presentation of the pharmacology and therapeutic value of drugs used in medicine. Related topics—with special consideration of pediatric and geriatric pharmacology—include drug legislation, PDR, routes of administration, pharmacokinetics, pharmacodynamics, adverse effects, drug interactions, and drug toxicity. Overview of PA's responsibilities when prescribing and/or dispensing pharmaceuticals.

AS Clinical Medicine for As I
 Study of common medical and/or surgical disorders encountered in general adult medicine. Typical clinical presentation, etiology, pathophysiology, diagnostic work-up, EKG interpretation, and management of these disorders.

AS Clinical Medicine for As II
 Study of common medical and/or surgical disorders encountered in general adult medicine. Typical clinical presentation, etiology, pathophysiology, diagnostic work-up, and management of medical and/or surgical disorders.

AS Primary Care Pediatrics
 Common medical and surgical disorders encountered in pediatric medicine. Emphasis on primary-care concepts in the care of children. Introduction to rare disorders that the PA may encounter in primary care. Presentation of disease processes mirrors adult medicine by discussing the etiology, pathophysiology, clinical presentation, diagnostic work-up, and management.

AS Women's Health Care
 Common problems encountered in caring for women; management of these problems. Etiology, pathophysiology, clinical presentation, and diagnostic work-up.

AS Clinical Skills for As
 Introduction to the basic skills and knowledge needed to evaluate and treat common illnesses and injuries. Safety, aseptic technique, BLS, ACLS, wound care, local anesthesia, suturing, casting, splinting, use of various tubes and drains, emergency medicine, and surgery for physician assistants.

AS Preventive Medicine Concepts
 Selected topics dealing with aspects of disease prevention. Relevance of statistics, epidemiology, research designs, and clinical trials; as well as selected disease trends, lifestyle modification, the role of physical activity, nutrition and immunization, public health approaches to communicable diseases, and genomics.

AS Behavioral Science for Physician Assistants
 Behavioral science counseling skills necessary to assist patients in dealing with illness and injury, in following prescribed treatment regimens, and in adopting attitudes and behaviors leading to improved health behaviors (including thinking, feeling, and acting).

AS Physical Diagnosis I
 Part I of a two-part sequence of lecture, demonstration, and practice in the art and science of obtaining the medical history and performing the physical examination.

AS Physical Diagnosis II
 Part I of a two-part sequence of lecture, demonstration, and practice in the art and science of obtaining the medical history and performing the physical examination.

Prerequisite: PAST 514.

AS Professional Issues
 Acquaints the entering student with the history, development, and current status of the PA profession, and helps him/her formulate an appropriate perception of the PA role. A historical perspective of the PA profession, as well as current trends and issues; the PA's role in health care delivery; political and legal factors that affect PA practice; intraprofessional factors and the PA's role in relation to physicians and other providers. Importance of professional responsibility and of biomedical ethics in relation to the PA's role as health care provider. Content relating to PA professional organizations, program accreditation, graduate certification and recertification; employment considerations; and professional liability.

AS Case Study Writing
 Selection of a case-study patient and preparation of a case study for publication in journals appropriate to the PA's profession. Must be enrolled in PA program.

AS Research I
 The scientific method in health-science research. Focuses on the major steps of the research process: problem identification, literature review, conceptual framework, identification of variables, statement of hypotheses, experimental design and analysis, and presentation of data. Critical evaluation of research literature.

AS Research II
 Application of the research process to problems in related, specific allied health fields. Development of a research proposal. Pilot testing of procedures and data-collection forms.

Prerequisite: PAST 521.

AS Research III
 Implementation of a research proposal in a practice setting. Computer data analysis and preparation of a research report both in written and oral formats. Development or creation of a PowerPoint presentation, poster, and abstract for submission to a profes-

AS Internal Medicine II Outpatient Medicine

A four-week rotation in out-patient medical clinics. Clinical experience with common adult medical problems, including management of chronic diseases. Forty hours per week.

AS Pediatrics I Inpatient Pediatrics

A four-week rotation as part of a pediatrics admitting team. May include overnight in-hospital call, emergency room call, ward rounds, and outpatient clinic duties. Clinical experience with common childhood illnesses, admissions, discharge, daily progress notes, and patient-management processes. Sixty hours per week.

AS Pediatrics II Outpatient Pediatrics

A four-week rotation in a pediatrics clinic. Clinical experience with common medical problems and health care needs of people from birth to 18 years. May require evening or weekend hours. Forty hours per week.

AS Obstetrics and Gynecology

A four-week rotation through various aspects of an obstetrics and gynecology service. Clinical experience in women's health care—with emphasis on primary care, including normal pregnancy and childbirth. May require in-hospital on-call (overnight) or late hours. Sixty hours per week.

AS General Surgery

A four-week rotation on general surgery service. Clinical experience with common medical problems requiring surgical intervention, primarily in adults. Includes assignment to an admitting team, in-hospital call (overnight) or late hours. Includes assisting in the operating room and surgical clinic. Sixty hours per week.

AS Emergency Medicine

A four-week rotation through a hospital Emergency Department, primarily in urgent care or assigned to minor trauma and illnesses. Clinical experience with common illnesses and injuries, suturing, and splinting. Requires late night and weekend duties. Sixty hours per week.

AS Psychiatry, Behavioral Medicine

A four-week rotation through an inpatient and outpatient behavioral medicine service. Clinical experience with common mental health problems, including acute and chronic psychoses, substance abuse, and affective disorders. May require late night or on-call duties. Sixty hours.

AS Elective I

A four-week elective rotation through a medical or surgical service of choice (as available). Hours/call may vary.

AS Elective II

A four-week elective rotation through a medical or surgical service of choice (as available). Hours/call may vary.

SH Advanced Respiratory Therapy Science I II III

Comprehensive review of patient-care techniques. In-depth presentation and discussion of clinical application of respiratory therapy devices and their influences on patient care. Reports and discussions of current and advanced developments. Designed to integrate experience with current concepts and to develop logical courses for proper equipment and technique application for specific patient care. Co-listed with RSTH 441. (Not taught every year.)

Prerequisite: Junior standing or consent of the department chair.

SH Cardiopulmonary Anatomy and Physiology

Anatomic and physiologic components of the cardiovascular and respiratory systems investigated. Emphasis on histology, embryology, diffusion, gases transported in the blood, acid-base balance, lung volumes and capacities, mechanics of ventilation, ventilation-perfusion relationships, regulation of respiration, cardiac cell-membrane action potentials, and excitation-contraction coupling.

SH Advanced Neonatal Respiratory Care

Neonatal and fetal physiology, diseases, and therapeutic interventions. Emphasis on neonatal respiratory care. Review of current research related to high-frequency ventilation, extracorporeal membrane oxygenation, and surfactant therapy.

SH Respiratory Care of the Critically Ill Newborn and Child

Pathophysiology of the newborn, prenatal risk factors, pediatric cardiopulmonary diseases, diagnostics, monitoring of clinical indices, and treatments used in perinatal/pediatric respiratory care. Advanced information on surfactant administration, high-frequency ventilation, and ECMO. (May be used toward Postprofessional B.S. degree in respiratory care in place of RSTH 422.)

SH Pulmonary Function Methodology

Evaluation of pulmonary function in health and disease through spirometry, plethysmography, helium dilution, nitrogen washout, single-breath nitrogen, volume of isoflow, and diffusing capacity studies—including blood-gas instrumentation, quality control, quality assurance, and current ATS standards. Lecture and laboratory.

SH Pharmacology I II

Survey of pharmacologic agents currently used in medicine—including their kinetics, dynamics, and therapeutics. Special emphasis given to drugs and their effects on the respiratory, cardiovascular, and autonomic nervous systems. Topics include the broncho-dilators, anti-inflammatory agents, mucokinetic agents, cardiovascular agents, diuretics, antimicrobials, neuromuscular agents, and agents used to treat nicotine dependence.

S H Respiratory Therapy Science I
 Basic principles of respiratory therapy, as related to gas physics; medical-gas storage and therapy; and administration of humidity, aerosol and airway pressure therapies, artificial airways, and resuscitation devices. Emphasis on methods of administration of the therapy, with special attention placed on the equipment used, as well as the application of this information to the clinical setting.

S H Respiratory Therapy Science II
 Lecture and laboratory presentation of the principles of respiratory therapy related to lung-inflation therapy; use of artificial airways, and their care and complications. Introduction to mechanical ventilatory support, including beginning ventilators, support systems, comparison of methods, and respiratory monitoring. Emphasis on application of this information to the clinical setting.

Prerequisite: RSTH 341.

S H Respiratory Therapy Science III
 Lecture and laboratory presentation of the principles of respiratory therapy related to mechanical ventilatory support, including patient management and ventilatory support systems. Emphasis on methods of ventilatory support, with special attention to the mechanical ventilators commonly used at the students' clinical sites. Application of this information to the clinical setting.

Prerequisite: RSTH 341, 342.

S H Case Studies in Adult Respiratory Care
 Adult critical-care concepts presented through a case-study approach. Respiratory care plan used to present diseases, treatment, and procedures relevant to respiratory care. Patient rounds further develop critical-thinking skills in a patient-care setting.

Prerequisite: RSTH 381.

S H Diagnostic Techniques
 Continues the clinical use of diagnostic tests and procedures. Emphasis on evaluation of chest radiographs, electrocardiography, and monitoring hemodynamics. Lecture and laboratory.

Prerequisites: RSTH 304, 331.

S H Cardiopulmonary Diseases I & II
 Comprehensive study of cardiopulmonary diseases and their adverse effects. Disease etiology, pathology, pathophysiology, clinical features, prognosis, treatment, and prevention.

Prerequisite: RSTH 304, 331, 341.

Corequisite: RSTH 323, 332, 342, 366.

S H Respiratory Care Racticum I
 General introduction to the clinical setting; assessment of patients with respiratory disease. Development of work habits and patient-care techniques. Students must obtain current cardiopulmonary resuscitation (CPR) certification from the American Heart Association before the end of the quarter.

Prerequisite: RSTH 341.

Concurrent: RSTH 342.

S H Respiratory Care Racticum II
 Application of specific therapeutic techniques, including oxygen and humidity therapy, aerosol therapy, airway management, lung-inflation techniques, and chest physiotherapy.

Prerequisite: RSTH 341, 391; AHA CPR certification.

Concurrent: RSTH 342, 381.

S H Respiratory Care Racticum III
 Therapeutic techniques applied in continuous mechanical ventilation; special procedures, operation and postanesthesia room, and arterial blood-gas laboratory.

Prerequisite: RSTH 343, 381, 392.

Corequisite: RSTH 382, 404.

S H Cardiopulmonary Intensive Care
 Management of the patient with cardiopulmonary failure. Theory and capabilities of various life-support and monitoring systems.

Prerequisite: Senior standing or consent of instructor.

S H Critical Care
 Continues the theory, practice, and knowledge of mechanical ventilation—providing an integrated approach to respiratory care in the critical-care arena. A systems-based approach used to incorporate respiratory care concepts such as planning and implementing of protocols, best-practice guidelines, etc. Presentations, projects, and critical evaluation used to increase critical-thinking skills and patient-care skills.

Prerequisite: RSTH 354.

S H Advanced Cardiac Life Support
 Principles and techniques of advanced emergency cardiac care: review of basic CPR, endotracheal intubation, and the use of airway adjuncts. Monitoring and dysrhythmia recognition. Essential and useful drugs for cardiac life support. Intravenous techniques. Appropriate use of devices for elective cardioversion or defibrillation, stabilization, and transportation. Use of circulatory adjuncts. Acid-base balance, drug therapy, and therapeutic interventions.

S H Perinatal and Pediatric Respiratory Care

Fetal development and circulation. Prenatal risk factors. Newborn resuscitation; newborn and pediatric assessment. Etiology, pathophysiology, course, treatment, and outcome of respiratory diseases as they relate to problems in pediatrics and neonatology. Discussion of ECMO, high-frequency ventilation, and nitric oxide.

Prerequisite: RSTH 304, 331.

S H Advanced Perinatal and Pediatric Respiratory Care

Pathophysiology of newborn and pediatric diseases that are likely to be encountered by the respiratory-care practitioner. Perinatal risk factors, resuscitation, and research on the transition to extrauterine life. Diagnostics, monitoring of clinical indices, and treatments used in perinatal/pediatric respiratory care. Advanced information on surfactant, high-frequency ventilation, and ECMO.

S H Exercise physiology and pulmonary rehabilitation

Metabolism of carbohydrates, lipids, and proteins in energy production, oxygen consumption, carbon dioxide production, and respiratory quotient applied to measurable counterparts of oxygen uptake, carbon dioxide output, and respiratory exchange ratio at rest and during exercise. Metabolic studies, body-fat composition, exercise studies, and malnutrition in chronic obstructive pulmonary disease utilized as a foundation for evaluation and implementation of a pulmonary rehabilitation program. Rehabilitation components include team assessment, patient training, exercise, psychosocial intervention, and follow-up.

Prerequisite: RSTH 323.

S H Senior project I

Students required to develop a proposal for a research paper/project. Under the direction of the program director, students will be assigned to a mentor who will assist them with developing their paper/project.

S H Senior project II

Development and expansion of research paper/project begun during previous quarter. Literature search, research question, and data-collection methods developed.

S H Senior project III

Data-collection completed, data analyzed, conclusions and findings written up for publication and for poster presentation.

S H Advanced patient Assessment

Advanced skills in interviewing, physical examination, and interpretation of laboratory data. Lecture, reading material, and physical-examination procedures. Provides insight for better interview and examination of patients with cardiopulmonary disease. Increases understanding of the pathophysiology behind the symptoms.

S H Respiratory Therapy Science I

In-depth presentation and discussion of the clinical application of respiratory therapy devices and their influences on patient care. Reports and discussions of current and advanced developments. Emphasis on application of this information to the clinical setting. Co-listed with RSTH 301. (Not taught every year.)

Prerequisite: RSTH 341, 342, 343; or permission of instructor.

S H Case Studies in neonatal, pediatric respiratory Care

Development of respiratory care-management skills of the neonatal and pediatric patient through the presentation of student case studies. Clinical staff and faculty review current management of the newborn, infant, and child. Students present patients and explain implications of care. Assistance in presentation skills.

Prerequisite: RSTH 421.

S H Respiratory Care Affiliation I

General care, basic critical care, and advanced critical care in the adult, pediatric, and neonatal setting as practiced at LLUMC. Open to students who are now, or have been recently, employed by LLUMC.

Prerequisite: California RCP licensure.

S H Respiratory Care Affiliation II

Specialty clinical assignments selected from the following areas: adult critical care, cardiopulmonary specialties, pediatrics and neonates, polysomnography, rehabilitation and patient education, research, and special procedures. Limited to students in the postprofessional B.S. degree program in respiratory care.

Prerequisite: AHCJ 461; RSTH 422; California RCP licensure.

S H Respiratory Care Affiliation III

Specialty clinical assignments selected from the following areas: adult critical care, cardiopulmonary specialties, pediatrics and neonates, polysomnography, rehabilitation and patient education, research, and special procedures. Limited to students in the postprofessional B.S. degree program in respiratory care

Prerequisite: AHCJ 461; RSTH 452; California RCP licensure.

S H Respiratory Care Affiliation I

Specialty clinical assignments selected from the following areas: adult critical care, cardiopulmonary specialties, pediatrics and neonates, polysomnography, rehabilitation and patient education, research, and special procedures. Limited to students in the postprofessional B.S. degree program in respiratory care.

Prerequisite: AHCJ 461; RSTH 452; California RCP licensure.

S H Respiratory Care Affiliation

Specialty clinical assignments selected from the following areas: adult critical care, cardiopulmonary specialties, pediatrics and neonates, polysomnography, rehabilitation and patient education, research, and special procedures. Limited to students in the postprofessional B.S. degree program in respiratory care.

Prerequisite: AHCJ 461; RSTH 452; California RCP licensure.

S H Physical diagnosis I

Systematic review of bedside assessment techniques utilized in the care of patients with respiratory disease. Student presentations and discussions of selected cases that involve diagnostic and therapeutic modalities of particular interest to respiratory therapists. (Three [3] units required for B.S. degree in respiratory therapy.)

S H Physical diagnosis II

Continued discussion of clinical assessment techniques and interpretation of findings in patients with cardiopulmonary disease. Emphasis on use of laboratory tests, chest radiographs, arterial blood gases, and other tests used to evaluate the patient. Lecture, reading, and discussion of case studies.

S H Management Racticum II, III

Experience in management of respiratory or emergency medical-care management. Clinical application of the theoretical management skills developed during the didactic portions of the training.

S H Advanced diagnostic techniques
Advanced diagnostic theory and practice in the following areas: Holter monitoring, echocardiography, bronchoscopy, sleep studies, and other relevant respiratory care diagnostics.

Prerequisite: RSTH 366.

S H Instructional techniques
I II III
Development of units of instruction, instructional

H AM

The program trains the modern phlebotomist to perform venipuncture, capillary puncture, and CPR; topics include medical terminology, laboratory safety, basic anatomy and physiology, quali-

H AM

The Cytotechnology Program, based on the completion of two years of study at an accredited college or university, leads either to a certificate or to a certificate and a Bachelor of Science degree. The program of study begins with the Autumn Quarter. A certificate is awarded at the completion of the fourth quarter of study, and those electing to continue are awarded the Bachelor of Science degree upon the completion of an additional two quarters of study. With the certificate in cytotechnology and the baccalaureate degree, the student is eligible to take a national examination and become a registered cytotechnologist.

Registered cytotechnologists entering the program to receive the Bachelor of Science degree are considered to have completed, on the basis of registry, the equivalent course work listed in the first

H A M C I S

Upon completion of the program, the graduate should be qualified to:

1. Determine and implement the appropriate procedures for collecting and processing biological specimens for cytologic analysis.
2. Detect, differentiate between, and diagnose presence and absence of disease in gynecologic and nongynecologic samples.
3. Integrate and relate data generated by the various clinical departments, making judgments regarding possible discrepancies; confirm cytologic results; verify quality-control procedures; and develop solutions to problems concerning the generation of laboratory data.
4. Use contemporary and uniform diagnostic terminology in reporting laboratory results.
5. Judge the results of quality-assurance measures and institute proper procedures to maintain accuracy and precision.
6. Evaluate current and new techniques, instruments, and procedures in terms of their clinical and diagnostic usefulness and practicality.
7. Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and the public.
8. Recognize, encourage, and act upon the individual's need for continuing education as a function of growth and maintenance of professional competence.
9. Apply sound principles of management and supervision.
10. Understand and apply sound principles of scientific research.

A M I S S I

LA NO : AD O C-A NO
AN ABL O C DI .

required courses for Cytotechnology Certificate only
Baccalaureate degree from an accredited college/university

- General biology, complete sequence
- Human anatomy and physiology, complete sequence
- Microbiology with laboratory
- General chemistry with laboratory, complete sequence
- College algebra
- English composition, complete sequence

required courses for Cytotechnology S

20 units minimum in humanities (choose minimum of two areas from: history, literature, philosophy, foreign language, art/music appreciation/history)
Included in this minimum, 4 units of religion per year of attendance at a Seventh-day Adventist college or university

- General biology, complete sequence
- Human anatomy and physiology, complete sequence
- Microbiology with laboratory
- General chemistry with laboratory, complete sequence
- College algebra
- Cultural anthropology or an approved course dealing with cultural diversity
- Select 8 units from a minimum of two areas: sociology, economics, geography, political science, psychology, anthropology
- English composition, complete sequence (minimum of 9 quarter units)
- Personal health or nutrition
- Two physical activity courses
- Electives to meet the minimum total requirement of 96 quarter units

or total unit requirements for graduation, see Division of General Studies, LLU N AL DUCA ION • U I M N De, tion V .

How to apply, Cytotechnology

Prospective students should apply as soon after January 1 as possible for the next academic year. The certificate program begins in August and the B.S. degree program begins in September. Preference will be given to applicants whose applications and completed transcripts are received by March 1.

It is suggested that applicants take a minimum of two years of mathematics and natural sciences (excluding general science) during the high school years. A high school diploma or the GED is required for acceptance.

If English is not the native language, an undergraduate must submit a minimum score of 550 for the Test of English as a Foreign Language (TOEFL) or a minimum score of 90 percent on the Michigan Test of English Language Proficiency (MTELP) or the equivalent. Minimum scores of 5 both on the TOEFL writing test and the speaking test (TWE and TSE-A) are required for acceptance (see section II, INTERNATIONAL STUDENTS).

AC A _ M I C S S I

A minimum grade of C (2.0) is required for all courses in the program. A grade of less than C in any one course, or unsatisfactory clinical performance, will be cause for dismissal from the program for the remaining academic year. Readmission to the program will require reapplication.

AM I S C I

CH L S , Certificate Bachelor of Science

The program of instruction outlined as follows is for students enrolled during the 2004-2005 academic year.

C I ICA

CLSC 341	Female Genital Cytology	12
CLSC 351	Respiratory Cytology	7
CLSC 353	Urinary Tract and Prostate Cytology	3
CLSC 357	Gastrointestinal Tract Cytology	2
CLSC 361	Body Cavity and Miscellaneous Secretions Cytology	8
CLSC 363	Bone Biopsy Cytology	1
CLSC 365	Breast Cytology	1
CLSC 367	Cytogenetics	1
CLSC 371	Cytopreparation Techniques	3
CLSC 373	Histotechnology Techniques	1
CLSC 481	Supervised Cytology Research Project	4
CLSC 491, 492	Cytology Affiliation I, II	6, 6
AHCJ 328	Portfolio Practicum I	1
AHCJ 402, 403	Pathology I, II	4, 4

A microscope rental fee and a usage and replacement fee are required

Margie Martinez,
Senior Administrative
Secretary in the
Department of Clinical
Laboratory Science, is
ready, willing, and
able to answer any
concerns the students
might have -- and
ALWAYS with her
winning smile.

Meet some of the faculty and staff of the Department of Clinical Laboratory Science --
(front row) Dr. John Lewis, Clark Masangcay, Monique Gilbert, Sally Greenbeck,
Rodney Roath; (back row) James Brandt, Margie Martinez, Dr. Ron Hillock, Kelly Liu,
Marlene Ota, Dr. Ken Cantos-department chair, and Thuan Nguyen.

CLINICAL LABORATORY SCIENCE Bachelor of Science
 formerly MEDICAL CHEMISTRY

A student who has an interest in science, an investigative mind that enjoys the challenge of solving problems quickly and accurately, and a desire to help others should consider a career as a clinical laboratory scientist (CLS).

Clinical laboratory scientists examine and analyze body fluids, tissues, and cells. They look for bacteria, parasites, or other microorganisms; analyze the chemical content of fluids; match blood for transfusions; and test for drug levels in the blood to show how a patient is responding to treatment.

Clinical laboratory scientists perform complex chemical, biological, hematological, immunologic, microscopic, and bacteriologic tests. They use, maintain, and troubleshoot sophisticated laboratory equipment that is used to perform diagnostic tests. The clinical laboratory scientist possesses the scientific and diagnostic skills required for DNA and bio-molecular technology and genetic engineering applications, analyzes these test results and discusses them with the medical staff.

IIIS

Employment of clinical laboratory workers is expected to parallel the growth of other health care occupations through the year 2010, particularly as the volume of laboratory tests increases with population growth and with the development of new technology. Employment opportunities are excellent, with current vacancy rates of 12 percent. The 21st century is offering clinical laboratory scientists new avenues for test development, experimental design, administration, and education.

Clinical laboratory scientists work in hospitals or similar medical facilities, clinical and reference laboratories, home-health diagnostics, transfusion services, physicians' offices, and private medical clinics. Employment is also available in pharmaceutical and biotechnology companies, health information systems, DNA-technology and genetic engineering corporations, research laboratories, federal government agencies, forensics and crime investigation, veterinary hospitals, U.S. Public Health Service facilities, and in the areas of medical product development, as well as in customer and patient education.

3. Obtain certification and licensure as a practitioner in clinical laboratory science.
4. Demonstrate self-confidence in technical, professional, and interpersonal skills.
5. Become a cooperative, effective, and efficient health care worker.
6. Communicate effectively—both orally and in writing—with peers, supervisors, patients, the public, and members of the health care team.
7. Read and interpret professional literature.

AM I S C I
 CLINICAL LABORATORY SCIENCE Bachelor of Science

The program of instruction outlined as follows is for students enrolled during the 2004-2005 academic year.

I S C I			
O - UMM ION			
CLSM	301	Laboratory Mathematics Review*	1
CLSM	309	Quantitative Analysis (Chemical)	4
AHCJ	105	Procedures in Phlebotomy	5
AU UMN UA			
CLSM	321	Hematology I	3
CLSM	327	Clinical and Pathogenic Microbiology I	5
CLSM	331	Biochemistry	5
AHCJ	328	Portfolio Practicum I	1
AHCJ	418	Physiology I	4
IN UA			
CLSM	322	Hematology II	3
CLSM	324	Immunology I	3
CLSM	328	Clinical and Pathogenic Microbiology II	5
CLSM	332	Clinical Chemistry I	4
CLSM	341	Immunohematology I	3

C S S

For information about units of credit and course numbers, see the beginning of section III of this BULLETIN.

CLSC Introduction to Radiographic Procedures I, II

Nature and description of radiologic procedures for the nonradiologic technologist. Principles and medical techniques applied to the radiographic setting. Survey of anatomy and instrumentation. Includes observation laboratory.

CLSC Female Genital Cytology
Histology and cytology of the female genital tract. Cytohormonal changes, nonneoplastic abnormalities, premalignant lesions, and rare malignancies. Lecture, demonstration, and microscopic examination.

CLSC Respiratory Cytology
Histology and cytology of the respiratory tract. Lecture, demonstration, and microscopic examination. Research methods, with emphasis on experimental design and interpretation of results.

CLSC Urinary Tract and Prostate Cytology
Histology and cytology of the urinary tract and prostate. Lecture, demonstration, and microscopic examination.

CLSC Gastrointestinal Tract Cytology
Histology and cytology of the gastrointestinal tract. Lecture, demonstration, and microscopic examination.

CLSC Body Cavity and Miscellaneous Secretions Cytology
Histology and cytology of fluids from the body cavities and other sites. Research methods applicable to cytology, with emphasis on experimental design and interpretation of results. Lecture, demonstration, and microscopic examination.

CLSC Bone Biopsy Cytology
Histology and cytology of bone. Lecture, demonstration, and microscopic examination.

CLSC Breast Cytology
Histology and cytology of the breast. Lecture, demonstration, and microscopic examination.

CLSC Cytogenetics
Meiosis, mitosis, karyotype preparation. Genetic disorders. Lecture, demonstration, and laboratory.

CLSC Cytopreparation Techniques
Procedures on collection and fixation techniques from all organ sites. Techniques in assuring cumulation of follow-up data and laboratory quality control. Clinical and social aspects of AIDS. Lecture, demonstration, and laboratory.

CLSC Histotechnology Techniques
Histologic preparatory techniques, with emphasis on special stains.

CLSC General Histology
Microscopic study of fundamental tissues, cells, organs, and systems of the human body, with emphasis on laboratory and conference exercises.

Prerequisite: AHCJ 402, 403.

CLSC Pathology
Advanced pathology, with emphasis on the cytologic changes of cells in disease. Review of all organ systems, with correlation between tissue-biopsy material and cytologic findings.

Prerequisite: PATH 305, 306.

CLSC Hematology
Theory and background of routine and special laboratory procedures used in diagnosis and treatment of hematologic and other diseases. Evaluation and comparison of methodology. Emphasis on bone marrow, body fluid, and peripheral blood-cell morphology: hematopoiesis, maturation, kinetics. Atypical and abnormal cellular morphology, including leukemias, lymphomas, and anemias. Clinical and social aspects of AIDS.

CLSC Advanced Specialties
Principles and techniques of electron microscopy, including basic cell ultrastructure, immunohistochemistry, and molecular biology.

CLSC Current Research Techniques
Introduction to current research techniques and skills development. Techniques in immunocytochemistry, image, flow cytometry, and molecular pathology.

CLSC Supervised Cytotechnology Research Project
Research project under the supervision of the program director. Oral presentation and paper.

CLSC Supervised Hematology Research Project
Supervised research project under the direction of the hematopathologist. Oral presentation and paper.

CLSC Cytology Affiliation I, II
Six two-week internships in the cytopathology laboratory. Rotation through all phases of diagnostic service work and laboratory functions in cytology. Independent screening of routine gynecologic and nongynecologic specimens.

CLSM Laboratory Mathematics
Problem solving related to clinical determinations, including solution preparation and calculations necessary for generating laboratory-test results from raw data.

CLSM Urine and Body Fluid Analysis I
Urinalysis screening procedure and its application in

CLSM 5 Medical Parasitology
Medically important parasites: life cycles, clinical features, infective diagnostic stages. Demonstrations, slide studies, and diagnostic procedures. Lecture and laboratory.

CLSM 20 Quantitative Analysis Chemical 1 1

CLSM 303 Urine and Body Fluid Analysis II
Correlation of theory and clinical experience with—and their application to—analytical techniques. Assessment and interpretation of data. Evaluation and comparison of methodologies. Urinalysis screening procedures and applications in the diagnosis of renal, systemic, and metabolic diseases. Processing, analysis, and morphologic evaluation of body fluids.

Prerequisite: CLSM 303.

Corequisite: CLSM 471.

CLSM 304 Diagnostic Microbiology
Correlation of theory and clinical experience with—and their application to—analytical techniques. Assessment and interpretation of data. Evaluation and comparison of methodologies. Directed study and review of diagnostic bacteriology, mycology, parasitology, and virology. Emphasis on isolation and identification of pathogenic

CLSM 435 Clinical Practicum III

Thirteen weeks of supervised clinical laboratory experience in selected areas, including: chemistry and special procedures. Student performs tests routinely done in these areas of the clinical laboratory. Incorporates experience in administrative duties.

Prerequisite: Satisfactory completion of Clinical Laboratory Science Program junior-year courses.

Corequisite: CLSM 434, 455.

HEALTH INFORMATION MANAGEMENT

HEALTH INFORMATION SYSTEMS MASTER'S DEGREE
 Certificate in Health Information Systems

HEALTH INFORMATION ADMINISTRATION BACHELOR'S DEGREE
 Certificate in Health Information Administration

CODING SPECIALIST CERTIFICATE

MARILYN H. DAVIDIAN, Department Chair; Program Director for Health Information Systems and Health Information Administration

DIANA S. MEDAL, Program Coordinator for Certificate, Coding Specialist

KIMBERLY S. RICHARDS, Recruitment Coordinator

TERRI L. ROUSE, Clinical Coordinator

ACADEMIC ADVISORS

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 Intithar S. Elias
 Helen R. Greenwood
 Debra L. Hamada
 Diana S. Medal
 Dulce Peña
 Terri L. Rouse
 Michael Scofield
 Donna G. Thorpe

ACADEMIC ADVISORS

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 Deborah Critchfield
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 Irvin Kuhn
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 Douglas F. Welebir

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 Padmini Davamony
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 Damon Needleman
 Betty Ann Wagner
 Grenith J. Zimmerman

FINANCIAL INFORMATION

For tuition information, please see section II, Financial Information, SCHEDULE OF CHARGES.

ACADEMIC ADVISORS

Rita M. Stiffler, Chair
 Darlene Downs
 Kate Haggerty
 Carel Hanson
 Melissa Hingula

*ex officio

I I S

While many health information administrators are employed in various areas of acute-care facilities, others work in alternative-delivery health care systems, research facilities, quality assurance, data companies, industrial establishments, governmental agencies, medical departments of insurance companies, accounting firms, or as consultants to skilled nursing and other facilities.

The multiplicity of new technologies, the advent of electronic health records, the demand for health information, the emphasis on evaluation of care, the surge in research, the emphasis on cost control, and other factors combine to require comprehensive knowledge and increased utilization of administrative talent and judgment.

H AL H I MA I A MI IS A I , Certificate

A MISSI

To be eligible for admission, the applicant must have completed a minimum of 96 quarter units at an accredited college or university.

Prerequisites for Health Information
Administration Certificate
Bachelor's

A_MISSI

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C I S CIALIS , Certificate

Health care facilities need coders who accurately select ICD-9-CM codes, CPT codes, and DRG and APC assignments for diagnostic and surgical information recorded in health records. In most instances, financial reimbursement is directly

C S S

or information about units of, credit and course numbers, see the definition of section III of this BULLETIN. Multinumbered courses must be completed in sequence.

HLCS 238 Pharmacology
Introduction to pharmacology, including a review of pharmaceuticals used in diagnosis, prevention, and treatment of disease as commonly encountered in medical records.

Prerequisite: HLCS 239 or equivalent.

HLCS 239 Essentials of Human Diseases
Survey of human diseases, including the etiology, pathogenesis, and clinical manifestations of commonly encountered diseases.

Prerequisite: Human anatomy and physiology

HLCS 240 Introduction to Medical Records
Introduction to health care facilities and the information systems involving health records. In-depth study of health record content, confidentiality of health care information, and professional ethics.

HLCS 241 Medical Terminology
Prefixes, suffixes, and root words used in the language of medicine. Terms pertaining to pathology and surgery.

HLCS 242 Coding I
Principles and conventions of ICD-9-CM coding in diseases and procedures pertaining to infectious disease; diseases of blood, endocrine, respiratory, digestive, genitourinary, skin, and musculoskeletal systems; and mental disorders. One hour weekly laboratory included to enhance coding proficiency.

Prerequisite: HLCS 236 or equivalent.

HLCS 243 Coding II
Principles and conventions of ICD-9-CM coding in diseases and procedures pertaining to pregnancy, perinatal conditions, poisonings, injuries, complications of medical and surgical care, the circulatory system, and neoplasms. One hour weekly laboratory included to enhance coding proficiency using actual patient records.

Prerequisite: HLCS 242.

HLCS 244 Coding III
Principles of current procedural coding (CPT) at the intermediate level—including surgical coding for all body systems, medical procedures, anesthesia coding, radiology, pathology, and laboratory coding. Modifier assignment included. 2 hour weekly laboratory practice on 3M and Quadramed software included.

Prerequisite: HLCS 243.

HLCS 245 Evaluation and Management Coding for Billing and Reimbursement
Principles of billing and third-party reimbursement as they relate to physician professional coding and APC assignment for health care institutions. E & M coding conventions and modifiers included. Coding for physician practice settings including outpatient, inpatient, ER, observation, SNF, and other common settings. Principles of health service billing are covered, including billing terminologies, the billing

process and the universal billing forms. One hour weekly laboratory practice included to enhance student proficiency using actual patient records and 3M encoding software.

Prerequisite: HLCS 245.

HLCS 246 Coding Special Topics
Coding system usage by reimbursement agencies, laws governing these processes, and federally supervised coding auditing to assure that the laws of coding are followed. Health care-delivery systems and internal billing and reimbursement in these settings. Requirements of state and federal coding regulatory agencies, ethics of coding, coding quality, and coding compliance. Content varies to accommodate the changing nature of health care-reimbursement processes and laws.

Prerequisite: HLCS 245.

HLCS 247 Coding Practicum I
Sixty-six-hours of coding laboratory designed to provide a capstone experience for students who have completed all academic course work in coding. Enables students to apply all state and national coding and reimbursement regulations to a variety of inpatient and outpatient records. Provides students the opportunity to improve speed and accuracy prior to entering the job force.

Prerequisite: HLCS 257.

HLCS 248 Coding Practicum II
A continuation of HLCS 261. Practicum II includes an additional 66 hours of coding laboratory experi-

MHIS 337 Security and Data Communications
How information systems work. Fundamentals of information-systems hardware and software, including existing databases on local and national networks. Internet and Intranet projects required. Distributed data processing, client-server systems, local-area networks (LAN), wide-area networks (WAN), and data communications, including voice and image. Field trips. Scheduled laboratory assignments using various database environments.

MHIS 338 Maintenance and Operation of Information Systems

Process of maintenance and management of data-communication systems. Network administration. Analysis and development of information-security systems, system auditing, information-system documentation, and system-maintenance plans. Development of maintenance plan and security plan. Scheduled laboratory.

MHIS 339 Project Management Skills

Fundamentals of project planning in information systems, including building the project team, defining project objectives, structuring and scheduling the project, and establishing a project timeline. Use of Microsoft Project for documentation requirements. Reporting, monitoring, analysis, and control also presented.

MHIS 340 Market Research Methods in Health Care

Application of health care-market data sources, including the Internet, *Dartmouth Health Care Atlas*, government and health care agencies, health care-market-research firms, publications, and others. Effective presentation of market-research data for decision-support systems using multiple communication formats—including written analysis, public speaking/LCD presentations, media strategic-planning/business-planning documents, accreditation reports, and other resources.

MHIS 341 Seminar in Health Information Systems

Projects and case studies designed to prepare the student for the internship. Techniques of personnel selection, interviewing, vendor evaluation, and management of an HIS department. Includes concentrated, hands-on experience with technology as it relates to health information systems. Flexible content tailored to the needs and prior experience of the students.

Taken in the last quarter before the internship.

MHIS 342 Health Systems Operations Management

Use of quantitative methods to analyze and improve business processes within an organization. Regression analysis, simulation, decision analysis, capacity planning, inventory models, linear programming, scheduling, and cost-benefit analysis.

MHIS 343 Strategic Health Information Systems Management

Decision making and planned change through the strategic-planning process. Purpose, vision, mission, and strategic objectives. Developing strategic alternatives and choices incorporating information technology. System life-cycle method. Concepts of marketing strategy and competition analysis in the health care market. Integration mergers, restructuring, and downsizing; and their effects. Presentation of a health information-system technology business plan.

MHIS 344 Health Information Systems Internship

Practical application of the principles of classroom theory in a health care setting. Major project required.

Prerequisite: Completion of all M.H.I.S.-degree course work, or permission of department chair.

MHIS 345 Directed Study

Individual arrangements for students to study under the guidance of a program faculty member. May include literature review, research, or other special projects.

C O U R S E S

S E E CONJOINT COURSES, section III General Information, for course descriptions.

C O U R S E S

L O M A L I N D A Christian Ethics and Health Care

Ethical issues in modern medicine and related fields from the perspective of Christian thought and practice.

Additional project required for third unit.

L O M A L I N D A Perspectives

History and philosophy of Loma Linda University as a Christian health-sciences institution that fosters human wholeness.

Additional project required for third unit.

I C H L Associate in Science

The dietetic technician is a support member of the nutrition-care team. At the direction of the dietitian, the dietetic technician screens patients for nutrition-care needs, marks menus, teaches individuals or groups, monitors effectiveness of nutrition care, and documents findings in the patient's medical record. Dietetic technicians contribute to the overall success of the food service by developing menus, supervising food-service employees, monitoring quality of food, and providing in-service training for employees.

I I S

The dietetic technician practices with other members of the nutrition-care team, including the registered dietitian, the dietetic assistant, and food-production and food-service personnel. Employment may be found in a variety of environments, including hospitals and other health care facilities, retirement centers, schools and universities, government and community agencies, food-management companies, and industrial feeding sites.

H AM

The program consists of four quarters and integrates the theory of the classroom studies with the experience of the laboratory and supervised clinical experience. Students participate as active learners in a variety of settings planned to develop competent dietetic technicians. The Associate in Science degree is awarded upon successful completion of the program.

Accreditation

The Dietetic Technology Program is currently granted continuing accreditation by the Commission on Accreditation for Dietetics Education of The American Dietetic Association, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995; telephone: 312/899-5400. Web site <www.eatright.org/cade>; FAX: 312/899-4817.

SSI AL IS AI

Upon satisfactory completion of the program and upon recommendation of the faculty, the graduate will be eligible to take the registration examination of the Commission on Dietetic Registration in order to become a dietetic technician, registered (DTR).

SSI AL ASS CIA I

Students and graduates are eligible for membership in The American Dietetic Association. The mission of the association is to provide direction

and leadership for quality practice, education, and research; and to promote optimal health and nutritional status of the American population. This organization grants student membership at a nominal cost to undergraduates of accredited programs. The national office of The American Dietetic Association is at 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995. Along with membership in the American Dietetic Association, students become members of the California Dietetic Association. Students are encouraged to join the Inland District Dietetic Association and, where possible, the Seventh-day Adventist Dietetic Association.

H AM ALS

1. Prepare graduates to be competent entry-level dietetic technicians;
2. Assure 90% of enrolling students complete the program with encouragement, empowerment, and support of faculty and staff;
3. Provide professionally trained Dietetic technicians, Registered, who may be employed by the health care and educational systems of the Seventh-day Adventist Church, or local, national, or international entities;
4. Develop a "career ladder" for nutrition education at Loma Linda University.

H A M C I S

Upon completion of the program, the graduate should be qualified to:

1. Perform competently at the entry level of technical practice.
2. Value life-long learning.
3. Utilize current technology.
4. Participate as a leader in nutrition care.
5. Recognize the option to pursue a bachelor's degree program upon completion of the Associate in Science degree.
6. Fill the need for registered dietetic technicians, where appropriate, within the health care and educational network of Seventh-day Adventist institutions as well as local organizations.

AM I S C I

DIETETICS Bachelor of Science

Dietetics, a vital profession in the field of health promotion, focuses on the sciences of nutrition and management in feeding individuals and groups throughout the life cycle. The Coordinated Program in Dietetics combines supervised professional practice with didactic curriculum to develop professional skills concurrently with cognitive and technical skills to enable the graduate to establish eligibility to become a registered dietitian.

Admission to the program is based on a selective process. To be eligible for consideration, the applicant must meet the following criteria: completion of subject requirements, as indicated, at an accredited college or university; a 3.0 G.P.A. or above; an interview; a letter of application; and recommendations.

DESCRIPTION

Dietetic practice is the application of principles derived from integrating knowledge of food, nutrition, biochemistry, physiology, business and management, journalism, behavioral and social sciences, and the arts to achieve and maintain health, prevent disease, and facilitate recovery from illness.

Members of the dietetics profession practice in a variety of environments, including hospitals and other health care facilities, schools and universities, government and community agencies, business, and industry. A growing number of dietitians are employed in physicians' offices, clinics, home-health care agencies, mass communication, and many other entrepreneurial roles.

By successfully passing the registration examination for dietitians, practice opportunities as a specialist in medical nutrition therapy, administrative dietetics, nutrition education, community nutrition, or research are available. There is increased recognition of the importance of nutrition in the fields of medicine, dentistry, and health promotion—with emphasis on fitness and optimal well-being. This indicates that the dietitian's scope of practice is steadily widening.

MEDICAL NUTRITION THERAPY

The Registered Dietitian in medical nutrition therapy applies the science of nutrition to the care of people through health promotion and disease prevention and uses medical-nutrition therapy in the treatment of disease. The effective dietitian must be aware of the cultural, social, economic, aesthetic, and psychological factors that affect eating patterns. As a member of the patient-care team, the registered dietitian (RD) is responsible for assessing, implementing, and monitoring the nutritional care of patients. In

addition, the RD may serve professionally as a nutrition practitioner in health care; a teacher in an educational institution; a research dietitian; or a nutrition consultant-educator in municipal, state, or federal departments of health.

A **M** **I** **S** **A** **I** **L** **I** **C** **S**

The registered dietitian (RD) in management is accountable for the food-service systems. In a health care institution, the RD is responsible for the effective functioning of food service from the standpoint of patients, administration, medical staff, and personnel. The administrative RD may also teach; manage food systems in educational, public, or commercial facilities; serve as consultant to health care or educational institutions; or enter the field of research.

C **M** **M** **I** **L** **I** **A**

Community registered dietitians practice in diverse settings, translating nutrition science into improved health status. Challenges may include forming partnerships with various organizations, mastering technology, enacting regulations and policies that protect and improve the public's health, and creatively managing scarce resources. Dietitians working in the community exhibit high-quality leadership and planning skills, and many create positions that are entrepreneurial as well as financially rewarding.

H **A** **M**

The Nutrition and Dietetics Program is established to prepare entry-level dietitians to join the profession and contribute to the wholeness of mankind. The graduate is awarded the Bachelor of Science degree and is eligible to write the registration examination of the Commission on Dietetic Registration. The program is composed of didactic and supervised professional practice experiences in an environment of liberal arts education to prepare an educated graduate. Admission to the professional program at this University begins with the postsummer session of the sophomore year. The applicant will present at least two years of preprofessional education from an accredited college or university to meet the specific subject requirements for 2004-2005.

The professional program of seven or eight quarters includes theory, laboratory, research, and clinical experiences. Ten weeks of clinical experience are scheduled at the end of the junior year and ten weeks during the Spring Quarter of the senior year. Students participate as active members of the nutrition-care team in multiple clinical settings. Administrative affiliation experiences involve decision-making assignments in volume-feeding operations.

Accreditation

The Coordinated Program in Dietetics is currently granted continuing accreditation by the Commission on Accreditation for Dietetics Education of The American Dietetic Association, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 312/899-5400.

S **S** **I** **A** **L** **I** **S** **A** **I**

Upon satisfactory completion of the program and upon recommendation of the faculty, the graduate will be eligible to take the registration examination for dietitians in order to become a registered dietitian.

S **S** **I** **A** **L** **A** **S** **S** **C** **I** **A** **I**

Students and graduates are eligible for membership in The American Dietetic Association. The mission of the association is to provide direction and leadership for quality practice, education, and research; and to promote optimal health and nutrition status of the American population. The association grants student membership at a nominal rate to students in accredited programs. The national office of The American Dietetic Association is at 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995. Along with mem-

bership in The American Dietetic Association, students become members of the California Dietetic Association. Students are encouraged to join the Inland District Dietetic Association and, where possible, the Seventh-day Adventist Dietetic Association.

H A M A L S

1. Prepare graduates to be competent entry-level dietitians;
2. Assure 90% of enrolling students complete the program with encouragement, empowerment, and support of faculty and staff;
3. Provide professionally trained Registered Dietitians, who may be employed by the health care and educational systems of the Seventh-day Adventist Church, or local, national, or international entities;
4. Serve as a nutrition resource to Seventh-day Adventist Church organizations.

H A M C I S

Upon completion of the program, the graduate should be qualified to:

1. Perform competently at the entry level of professional practice.
2. Exhibit Christian ethical and moral values.
3. Exhibit an investigative spirit to continue attaining knowledge and developing professional competency beyond the entry level.
4. Communicate effectively and be computer literate, using and analyzing data in the decision-making process.
5. Develop leadership skills to achieve personal and corporate goals.
6. Incorporate critical-thinking skills into professional and personal decisions.
7. Demonstrate, from a historical and contemporary basis, the value of diversity in the personal and professional life from ethnic, gender, generational, and ideological points of view.

A M I S S I

Admission to the program is based upon a selective process. To be eligible for considera-

A M I S C I
I I A I I C S Bachelor of Science

The program of instruction outlined as follows is for full-time students enrolled during the 2004-2005 academic year.

I I A

tion the applicant must meet the following criteria:

- a 3.0 G.P.A. or above
- an interview
- a letter of application
- recommendations
- completion of program prerequisites

required courses for nutrition and dietetics: 20 units minimum in humanities

- Choose minimum of two areas from: history, literature, philosophy, foreign language, art/music appreciation, or art/music history
- Must include also 4 units of religion per year of attendance at a Seventh-day Adventist college or university

Two years high school mathematics with grades of C or better or intermediate algebra in college

Anatomy and physiology, complete sequence with laboratory

Introductory chemistry, complete sequence with laboratory after current requirement for chemistry.

NOTE: We recommend General Chemistry for those considering an advanced degree in Nutrition and Dietetics. We will accept either chemistry sequence.

Microbiology with laboratory

General psychology

Sociology

Cultural anthropology or an approved course dealing with cultural diversity

English composition, complete sequence

Speech

Two physical activity courses

Human nutrition

DTCS 302 Food Selection and Preparation

DTCS 303 The Art of Food Presentation

Electives to meet the total minimum requirements of 87 quarter units

or total unit requirements for graduation, see Division of General Studies, LLU N A L D U C A I O N • U I M N B e , t i o n V .

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DTCS 305	Professional Issues in Nutrition and Dietetics	0.5
DTCS 339	Life-Cycle Nutrition	2
DTCS 341	Nutrition Assessment	3
DTCS 371	Quantity Food Purchasing, Production, and Service	5
AHCJ 329	Orw-R.Fistry with Laboratory -1.148.0[(w UTUMN QUAk36Tc198 654..661 m365 Tm08 654..661 IS9 0 0 9	



(Seated, left to right) Maxine Taylor and Ken Burke.
 (Standing, left to right) Bert Connel (department chair),
 Jana Bowen, Martina Karunia, Georgia Hodgkin, and Cindy Kosch.
 It is impossible to corner all of the Department of Nutrition and Dietetics
 faculty members at one time. Their quest for keeping the curricula up to date
 is a never-ending task and occupies their time when not in the classrooms.

INTERNATIONAL ICS Certificate

ADMISSION

To be eligible for admission, the applicant must have earned a minimum of a baccalaureate degree at an accredited college or university.

Subject Requirements for NUTR 200 & NUTR 201

The applicant must complete the core professional courses required for the B.S. degree.

Residency Requirement

A minimum of 18 units of credit in residency is required.

Prerequisites for Nutrition and Dietetics Certificate

Bachelor's degree from an accredited college

Human anatomy and physiology with laboratory, complete sequence

Microbiology with laboratory

General chemistry with laboratory, one semester or two quarters

NOTE: A minimum grade of C-2.0 is required for all courses in the program.

AMERICAN ICS Certificate

An individualized program of instruction will be developed prior to admission, based on the applicant's need and previous courses, to assure that all program requirements are met. Eligibility to write the registration examination for dietitians of the Commission on Dietetic Registration will be based on completion of program requirements as well as on demonstrated competency in the following certificate prerequisites.

CH 4 Independent Study in Dietetic Technology

Project or paper to be submitted on a topic of current interest in an area of dietetic technology. Regular meetings to provide the student with guidance and evaluation.

CS 20 Human Nutrition

Fundamentals of normal nutrition. Carbohydrates, proteins, fats, vitamins, minerals; their roles in human metabolism. Introduction to nutrition in the life cycle. Per week: lecture 3 hours.

CS 26 Food Selection and Preparation

Foods and their nutritive values. Changes associated with maturation, preservation, table preparation, transportation, and storage in relation to food safety. Per week: lecture 3 hours, laboratory 3 hours. Laboratory fee.

CS 28 The Art of Food Presentation

Art of food presentation to enhance acceptance of food. Nutritional concepts and cultural food patterns in planning and producing meals. Focus on meal service at home and in professional and social settings. Per week: lecture 2 hours, practicum 3 hours. Laboratory fee.

Prerequisite: DTCS 301, 302; or consent of the instructor.

CS 29 Community Nutrition

Education of community members in different areas related to nutrition. Requires knowledge of normal nutrition and life-cycle issues. Nutrition assessment; medical nutrition-therapy topics such as obesity, CHD, diabetes, etc. Legislative processes and politics. Program planning, implementation, management, and evaluation. Counseling, teaching, and facilitating group processes. Interpreting data and research findings. Identifying and accessing community nutrition resources. Community interactions that promote a healthy lifestyle, including but not limited to nutrition topics. Per week: lecture 2 hours, practicum 6 hours.

Prerequisite: DTCS 301, 339, 341.

CS 30 Professional Issues in Nutrition and Dietetics

Growth of nutrition and dietetics as a profession, and the role of the professional in restoration and maintenance of health. Illustrated nontraditional roles of the registered dietitian and dietetic technician, registered. Emphasis on development of professionalism, accountability, and responsibility for life-long learning. Preparation of a professional portfolio.

CS 31 Human and Clinical Nutrition for Nursing

Fundamentals of normal nutrition. Carbohydrates, proteins, fats, vitamins, minerals; their roles in human metabolism. Investigating the role of nutrition at various stages in the life cycle of the individual in health and disease. Nutrition intervention in the prevention and treatment of disease in the clinical setting.

CS 32 Clinical Nutrition for Nursing

Nutrition intervention in the prevention and treatment of disease in the clinical setting.

CS 33 Nutrition and Human Metabolism

Nutritional requirements and metabolism of essential nutrients for the human organism at the cellular level. Focus on vitamin and mineral metabolism. Per week: lecture 4 hours.

Prerequisite: DTCS 301 or equivalent; general chemistry; anatomy and physiology; biochemistry.

CS 34 Life Cycle Nutrition

Management of the normal nutrition needs of individuals across the lifespan. Includes focus on pregnancy, lactation, normal infant growth and development; childhood and adolescence, with an overview of school feeding programs. Adult men's and women's health issues. Geriatrics. Per week: lecture 1 hour, practicum 3 hours.

Prerequisite: DTCS 301.

Corequisite: DTCS 341.

CS 35 Nutrition Assessment

Basic knowledge of the responsibilities of the clinical dietitian: review of the medical record, documentation in the medical record, medical terminology, and patient interviewing. Utilization of the computer for diet analysis. Introduction to nutrition assessment, anemias, food allergies, vegetarian diets, nutrition quackery, sports nutrition, obesity

—CS 371 Quantity Food Purchasing, Production, and Service

Emphasis on methods to achieve quantitative and qualitative standards in quantity food production. Menu planning for institutions. Purchasing. Practicum in food production and service. Open to dietetics students only. Per week: lecture 2 hours, practicum 9 hours.

Prerequisite: Microbiology.

—CS 372 Food Systems Organization and Management

Study of food-service systems. Effective utilization of resources within the food system. Computer application in food-systems management. Per week: lecture 2 hours, practicum 6 hours.

Prerequisite: DTCS 371.

—CS 373 Nutrition and Dietetics Practicum 4

Supervised experience in medical nutrition therapy, community, and administrative dietetics in hospitals, outpatient clinics, public health departments, and food systems. Performance review and evaluation. Ten weeks (400 clock hours) during the summer at the end of the junior year.

Prerequisite: DTCS 304, 343, 372.

—CS 374 Senior Seminar

Development of professional skills; team efforts to market nutrition in the community; volunteer efforts in the community; professional networking; and special topics as determined by nutrition and dietetics faculty. Emphasis on professional portfolio and transition to entry-level nutrition educator/dietitian/food-service director.

Prerequisite: DTCS 305 or equivalent.

—CS 375 Pharmacology in Medical Nutrition Therapy

General overview of pharmacology, including kinetics, dynamics, and therapeutics of drugs. Basic definitions, sources of information, classification of drugs, and

CS 304 Advanced Community Nutrition

Provides students access to community professionals in the context of informal, round-table discussions. Topics may include school-based nutrition education and interventions; epidemiology (cancer, CHD, or vegetarian diets); addictions; nutrition education and teaching aids; study of an international health organization; nutrition and public policy in the U.S. (FDA, NCI, etc.); nutrition journalism; the RD in private practice; soy-protein use around the world; and promotion of nutrition in the community. Provides students a weekly opportunity to participate in professional practice, including opportunity to conduct community-based programs and limited research. Assignments include giving a multimedia presentation, professional-practice case studies, professional-practice diary, writing a nutrition article to be submitted for publication, and a special-interest project (subject to approval of the instructor).

Prerequisite: DTCS 304.

CS 305 Community Nutrition Affiliation

Professional practice in community-nutrition settings,

in both traditional and nontraditional settings. Community-nutrition sal-

in both traditional and nontraditional settings. Community-nutrition sal-

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administrative

The occupational therapist and occupational therapy assistant work with persons who find it difficult to cope with psychological or physiological dysfunction.

The primary concern of both therapist and assistant is to stimulate those changes in behavior patterns that will increase the patient's personal independence and ability to work within his/her cultural and personal milieu. To accomplish this goal, the occupational therapist evaluates the patient; sets up treatment goals; and works together with the occupational therapy assistant in selecting tasks from the gamut of normal daily self-care activities, using them to assist the patient in gaining independent-living skills regardless of disability or handicap.

Essential to the role of occupational therapy is an interest in the behavioral sciences and a concern for the individual's need to find proper adjustments to life's circumstances. A desire to teach and a background or interest in medical science are beneficial. Those inclined to mechanical or scientific techniques are suited to helping patients develop their capacities for employment. Others find that they can use their interests in creative arts, crafts, music, and teaching to work with disabled homemakers, children, and retired persons.

I I S

Occupational therapists and occupational therapy assistants practice in general hospitals, rehabilitation centers, pediatric or psychiatric clinics, schools, skilled-nursing facilities, home care, and outpatient community-centered programs

S S I A L I S A I

Upon satisfactory completion of the occupational therapy A.A. or entry-level M.O.T. degree—including completion of Level II fieldwork within twenty-four months following completion of academic preparation, and upon recommendation of the faculty—the graduate is eligible to take the national certification examination administered by The National Board for Certification for Occupational Therapy (NBCOT). The board offers computerized examinations on demand throughout the year.

Many states require licensure in order to practice; however, state licenses are based on the results of the NBCOT certification examination. The American Occupational Therapy Association provides recognition essential to the practice of occupational therapy in the United States and most foreign countries. Information about qualifying examinations can be obtained at the office of the department chair.

When the graduate applies to write the certification examination with the NBCOT, s/he will be asked to answer questions related to the topic of felonies. For further information on these limitations, contact NBCOT at 800 South Frederick Avenue, Suite 200, Gaithersburg, MD 20877-4150; or telephone 301/990-7979.

S S I A L A S S C I A I S

Students are eligible for membership in The American Occupational Therapy Association and Occupational Therapy Association of California, two organizations that foster development and improvement of service and education. The student is encouraged to become a member, read the journal, and attend local professional meetings. The national office address is: The American Occupational Therapy Association, P. O. Box 31220, Bethesda, MD 20824-1220.

CC A I A L H A , ASSIS A , Associate in Arts

H AM

The second year of the Occupational Therapy Assistant (OTA) Program, leading to the Associate in Arts degree, is based on the completion of one year of prerequisite course work at any accredited college or university. The four quarters of course work at Loma Linda University begin with the Autumn Quarter of the sophomore year. For the two ten-week clinicals during the summer at the end of the program, the student is assigned for experience at approved hospitals and in various community health care programs. Level II fieldwork must be completed within eighteen months following academic preparation.

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reré uisites for ccupational herapy
Assistant A A

Religion required, 4 units per year of attendance at a
Seventh-day Adventist college or university

Fine arts

C C I I C A I

Students are required to have current cardio-pulmonary resuscitation (CPR) certification (adult and child) for all scheduled clinical experience. Classes are available on campus at Life Support Education, University Arts building, 24887 Taylor Street, Suite 102.

IMM I A I S

Students are required to have a current TB test, the complete hepatitis B series, and chicken pox immunizations for all scheduled clinical experience. Titers for MMR, hepatitis B, and varicella must be completed before entering the program. These are essential for fieldwork placements. Immunizations are available at the Student Health Service, Evans Hall. (See section II, Admissions Information: ENTRANCE REQUIREMENTS—Pre-entrance health requirement/Immunizations.)

A S A I

Students are required to have their own transportation to and from fieldwork sites and other class-related activities.

A MISSI

To be eligible for admission, the applicant must have completed a minimum of 48 quarter units or 32 semester units at an accredited college or university.

English composition, complete sequence
Speech

Introduction to Computers

Personal health or nutrition

Two physical activity courses

Electives to meet the minimum total requirement
of 96 quarter units

or experience

A minimum of forty hours of documented
community service of the applicant's choice is
required before application will be considered for
admission.

Admission to M
Master of Occupational Therapy track

This option is for individuals who have
earned a baccalaureate degree from an accredited

college or university. Graduates will receive a
Master of Occupational Therapy degree ONLY.

OCTH	542	Current Trends in Occupational Therapy Practice II	3
OCTH	544	Advanced Occupational Therapy History	3
OCTH	551	Theoretical Perspectives on Occupation	3
OCTH	552	Practice Perspectives in Occupational Therapy	3
OCTH	561, 562	Program Development/Design I, II	3, 3
OCTH	563	Professional Competency Development	3
OCTH	571-573	Research I, II, III	2, 2, 2
AHCJ	509	Teaching and Learning Styles	3
AHCJ	601	Research-Proposal Writing	3
RELR	536	Spirituality and Occupation	3

A minimum grade of C with an overall G.P.A. of 2.5 is required for all courses in the program. The program of instruction is full time for each quarter. Academic credit of less than 12 units per quarter does not indicate less than full-time work.

Religion course required for M.O.T. track students.

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The program of instruction outlined as follows is for full-time students enrolled during the 2004-2005 academic year. The curriculum is four quarters in length for full-time students or eight quarters in length for part-time students.

OCTH	526	Business Topics in Health Care	3
OCTH	542	Current Trends in Occupational Therapy Practice II	3
OCTH	544	Advanced Occupational Therapy History	3
OCTH	551	Theoretical Perspectives on Occupation	3
OCTH	552	Practice Perspectives in Occupational Therapy	3
OCTH	699	Directed Study	3
AHCJ	509	Teaching and Learning Styles	3
AHCJ	511	Biostatistics I	3
AHCJ	526	Computer Applications II	3
AHCJ	591	Research I	3
AHCJ	592	Research II	3
_____	_____	Elective	3
_____	_____	Elective	3
_____	_____	Elective	3
REL_	_____	Religion elective	3

C S S

For information about units of credit and course numbers, see the beginning of section III of this BULLETIN.

C A 2,1 Introduction to Occupational Therapy
 Growth of occupational therapy as a profession and its role in medical rehabilitative care. Human development from birth to death. Self-care, work, and play related to physical function and sociocultural adjustment. Per week: lecture 1 hour.

C A 2, Applied Anatomy
 Review of upper/lower extremities and trunk anatomy. Analysis-associated pathology as it applies to function. Per week: lecture 1 hour, laboratory 2 hours.

C A 2, Introduction to Functional Neuroanatomy
 Basic concepts of the anatomy of brain and spinal cord. Introduction to the neuron, synapse, nerve conduction, cell threshold, and feedback system. Per week: lecture 2 hours.

C A 2, 2, 2, 2 Occupational Therapy Assistant Practicum I II
 Observation and supervised experience in community programs. Per week: 8 hours.
 Prerequisite: Must be completed in sequence.

C A 2, Therapeutic Activities I
 Basic activities used by the occupational therapy assistant in a clinic setting. Problem-solving approach to woodwork, metalwork, and the primitive crafts. Clinic maintenance and safety emphasized. Per week: lecture 1 hour, laboratory 2 hours.

C A 2, Therapeutic Activities II
 General introduction to the use of assistive technology and splinting, and their role in occupational therapy. Per week: lecture 1 hour, laboratory 2 hours.

C A 2, Occupational Therapy Assistant Seminar
 Practical application of analyzing an activity for an individual or group of patients and demonstrating the ability to adapt those activities to each patient's needs. Per week: lecture 2 hours.

C A 2, Intervention Techniques
 Theory and application of basic skills in the management of disabled persons. Application of skills to body mechanics, self-care, and homemaking. Use of adaptive equipment in laboratory and clinic settings. Per week: lecture 1 hour, laboratory 2 hours.

C A 2, Occupational Therapy Practice I
 Normal and abnormal growth and development. Diagnosis and treatment of disabilities associated with development. Per week: lecture 4 hours, laboratory 2 hours.

C A 2, Occupational Therapy Practice II
 Introduction to major categories of physical dysfunction, with emphasis on intervention strategies and appropriate treatment protocols. Per week: lecture 4 hours, laboratory 2 hours.

C A 2, Occupational Therapy Practice III
 Theoretical foundations based on mental-health practice. Development of therapeutic relationships, data gathering, treatment methods, and use of adaptive activities to fit the needs of individual patients or groups. Per week: lecture 4 hours, laboratory 2 hours.

C A 2, Rehabilitation Principles
 Introduction to general rehabilitation principles. Course work emphasis on treatment planning, documentation, and introduction to clinical reasoning. Per week: lecture 1 hour.

C A 2, 2, 2, 2 Human Pathology I II III
 Introduction to disorders and diseases. Includes organ-system diseases, central-nervous system dysfunction,

California laws. Laboratory includes current concepts in the design and fabrication of upper-extremity orthotics and custom-made assistive devices for the hand. Emphasis on the use of low-temperature thermoplastics and alternative splinting materials. Per week: lecture 2 hours, laboratory 2 hours.

Prerequisite: OCTH 451, 452, 453.

C H Fundamentals of Case Management

Introduction to application of critical reasoning process; effective communication, documentation and overall professional skill building. Application of case-management skills, evaluation, intervention planning, implementation, re-evaluation, and termination when appropriate.

C H Case Analysis Reasoning and Management I

Introduction to application of critical reasoning process; effective communication skills with clients, families, and team members. Documentation and overall professional skill building.

Prerequisite: OCTH 451.

C H Case Analysis Reasoning and Management II

Continuation of case-management process as a means of addressing questions of importance to occupational therapy practice through theoretical perspectives. Application of case-management skills, evaluation, intervention planning, implementation, re-evaluation, and termination when appropriate. Emphasis on critical reasoning through clinically based case presentations. Per week: seminar/discussion 2 hours.

Prerequisite: OCTH 442, 451, 452.

C H Disorders of Human Performance I

Overview of the etiology, clinical course, evaluation, management, and prognosis of congenital, developmental, acute and chronic-disease processes; and of traumatic injuries. Includes problems associated with individuals and families having difficulty with social-cultural expectations; emphasis on effect of such conditions on human occupational performance across the lifespan.

Prerequisite: OCTH 309, 341.

C H Disorders of Human Performance II

Continuation of overview of etiology, clinical course, evaluation, management, and prognosis of congenital, developmental, acute, and chronic-disease processes; and of traumatic injuries. Includes problems associated with individuals and families having difficulty with social-cultural expectations; effect of such conditions on human occupational performance across the lifespan.

Prerequisite: OCTH 306, 331, 451.

C H Disorders of Human Performance III

Continuation of overview of etiology, clinical course, evaluation, management, and prognosis of congenital, developmental, acute, and chronic-disease processes; and of traumatic injuries. Includes problems associated with individuals and families having difficulty with social-cultural expectations; effect of such conditions on human occupational performance across the lifespan.

Prerequisite: OCTH 452.

C H Supervised fieldwork experience I II
Supervised fieldwork experience in clinical and/or community-based programs. Emphasis on assessment, planning, treatment, problem solving, administration, and professionalism. Successful completion necessary before the student is eligible to take the certification examination (480 clock hours each).

C H Occupational Therapy Independence

C H 500 Advanced Occupational Therapy History
 Provides the student with an extensive understanding of the history of occupational therapy by critically reviewing historical incidents, the history of occupational therapy and societal theories and practices, political conditions, and historical incidents. Facilitates the student's ability to enact advocacy and to better understand future projections in the field.

C H 501 Theoretical Perspectives on Occupation
 Provides the student with an expansive view of diverse influences on occupation and occupational therapy practice by critically investigating occupational theories and academic disciplines, such as anthropology, sociology, psychology, and philosophy. Exploration will lead to a better understanding of the uniqueness of occupation.

C H 502 Practice Perspectives in Occupational Therapy
 Provides the student with a view of the diverse influences on occupational therapy practice by critically investigating practice theories and issues which will affect the student's transition into professional life.
 Prerequisite: OCTH 551.

C H 503 Program Development Design I
 Focus on selection, research, and design of programs pertinent to occupational therapy practice.

C H 504 Program Development Design II
 Implementation of program planning, culminating with program evaluation and outcome assessment.
 Prerequisite: OCTH 561.

C H 505 Professional Competency Development
 Student pursues an area of special interest under the direction of the faculty adviser. Topic must be approved by the OT department.

C H 506 Research I
 Student develops and implements a scholarly research proposal by systematically identifying and investigating a problem, issue, or question of relevance to occupational therapy practice.
 Prerequisite: OCTH 411; AHCJ 351, 461.

C H 507 Research II
 The purpose of this course is to develop and implement a scholarly research. Focus is on seeking IRB approval and initiating data gathering and preliminary analysis of findings.
 Prerequisite: OCTH 571 and AHCJ 601.

C H 508 Research III
 The purpose of this course is to develop and implement a scholarly research. Emphasis on analysis of data, and presentation of findings in a research colloquium..
 Prerequisite: OCTH 572.

C H 509 Occupational Therapy Advanced Specialty Practicum
 Presentation of in-depth practice application in an area of occupational therapy. Opportunity to pursue various topics related to current trends. Development of advanced clinical skills, where appropriate.

C H 510 Directed Study
 Student pursues an area of special interest under the direction of the faculty adviser. Topic must be approved by the OT department.

C 101
 See CONJOINT COURSES, section III General Information, for course descriptions.

C 102
L 101 Christian Ethics and Health Care
 Ethical issues in modern medicine and related fields from the perspective of Christian thought and practice.

L 102 Spirituality and Occupation
 Exploration of the relationship between spirituality and occupation through assimilation of information drawn from religious theorists, theology, spiritual and religious practices, and occupation.
 Additional project required for fourth unit.

Junior OT students,
 Julie Witcombe and
 Kiera Unsell, practice
 feeding techniques used
 with developmentally
 delayed clients.

AC 12

Carol J. Appleton
Edd J. Ashley
Bruce D. Bradley
Lawrence E. Chinnock
Gary A. Coleman

PHYSICAL THERAPIST ASSISTANT, Associate in Science

The physical therapist assistant is a skilled paraprofessional health worker who, under the supervision of a physical therapist, carries out the patient's treatment program. The extent to which the physical therapist assistant is involved in treatment depends upon the supervising therapist.

A planned patient-care program is carried out by the assistant, following established procedures. Duties of the physical therapist assistant include: training patients in exercises and activities of normal daily living; performing treatment interventions; utilizing special equipment; assisting in performing tests, evaluations, and complex treatment procedures; and observing and reporting the patient's responses.

The other members of the rehabilitation team include the occupational therapist, nurse, speech and hearing therapist, respiratory therapist, recreational therapist, physician, social worker, chaplain, vocational counselor, dietitian, and psychologist. This team has as its objective the optimum functional restoration and rehabilitation of patients disabled by illness or injury.

PHYSICIAN ASSISTANT

Physical therapy offers a career for men and women who are interested in medical science and who enjoy working with people. Physical Therapist Assistant graduates have a wide choice of opportunities with medical groups, hospitals, rehabilitation centers, outpatient clinics, national and state agencies, and school systems. For those who desire to further their education, Progression Master of Physical Therapy and Post-professional Doctor of Physical Therapy and Doctor of Physical Therapy Science programs are available.

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Prerequisites for Physical Therapist Assistant A.S.

Individuals who already have a bachelor's degree from a regionally accredited college or university need to complete only the prerequisites denoted with an asterisk (*)

Four units of religion are required only if the applicant has attended a Seventh-day Adventist college or university

Select 4 units from one area: history, literature, philosophy, foreign language, art/music appreciation/history

*Human anatomy and physiology with laboratory, complete sequence

*Introductory physics with laboratory, one quarter/semester

*Two years high school mathematics with grades of C or above **or** intermediate algebra in college

*General psychology

*Human growth and development **or** developmental psychology **or** abnormal psychology

Freshman English composition, complete sequence

*Speech

Personal health **or** nutrition **or** two physical activity courses

Electives to meet the minimum total requirements of 48 quarter units or 32 semester units

or observation experience

Twenty hours in an inpatient physical therapy setting, plus an additional sixty hours in an inpatient or outpatient setting—for a total of eighty hours—are required.



Representing the Department of Physical Therapy and its many programs are:
 (front row) James Syms and Eric Johnson,
 (second row) Jan Fisher, Nicceta Davis, Donna Thorpe, Jeannine Stuart-Mendes,
 Tony Valenzuela, Bonnie Forrester, Andrea Walker,
 (third row) Howard Sulzle, Carol Appleton, Jerry Petrofsky, Edd Ashley,
 (fourth row) Larry Chinnock, Wes Swen, and Everett Lohman . . .
 and that's not all of our PT/PTA faculty!

Jan Fisher (below), administrative assistant, has seen many changes in our Department of Physical Therapy over the years . . . and things just keep getting better.

(Left, from top down) the administrative secretaries—Jodee Shaw of the Physical Therapy Assistant program and Barbara Cassimy and Andrea Walker of the various physical therapy master's and doctoral degree programs—help keep the faculty and all the students on the right track.

AM I S C I
SICAL H A IS ASSIS A Associate in Science

The program of instruction outlined as follows is for students enrolled during the 2003-2004 academic year.

S H M A

PHYSICAL THERAPY
 Progression Master of Physical Therapy
 Postprofessional Master of Physical Therapy
 Entry Level Doctor of Physical Therapy
 Postprofessional Doctor of Physical Therapy
 Postprofessional Doctor of Physical Therapy Science

Physical therapists evaluate and treat patients with disease, injury, or disabilities. In many states, registered physical therapists work as independent practitioners. The physical therapy techniques are applied to restore strength, flexibility, and coordination; to reduce pain; and generally to prepare the patient to function more effectively at work and in activities of daily living. Agents such as heat, light, electricity, water exercise, and massage are used. While working with patients, psychological and sociological principles are used to motivate and instruct.

Within the profession there are many specialties, including orthopaedics, neurology, pediatrics, geriatrics, cardiopulmonary, hand rehabilitation, and sports physical therapy. Physical therapists work in acute-care and convalescent hospitals, rehabilitation centers, children's centers, private practice, athletic training and sports-medicine programs, research institutions, school systems, and home-care agencies.

CARDIOPULMONARY

Students are required to have current cardiopulmonary resuscitation (CPR) certification (adult and child) for all scheduled clinical experience. Classes are available on campus at Life Support Education, University Arts building, 24887 Taylor Street, Suite 102.

AMERICAN PHYSICAL THERAPY ASSOCIATION

Students and graduates are eligible for membership in the American Physical Therapy Association (APTA). The objective of the association is to foster development and improvement of service and education. This organization grants student membership at a nominal cost to students of approved schools. The student is required to become a member of this association while in the program and is encouraged to read the journal and attend the APTA-sponsored meetings.

STATE LICENSURE

Satisfactory completion of the progression M.P.T., or entry-level D.P.T. degree requirements and clinical affiliation qualifies the student to sit for all state licensure examinations.

A M I S C I
PHYSICAL THERAPY Progression Master of Physical Therapy

The program of instruction outlined as follows is for students enrolled during the 2004-2005 academic year.

Year 1 - A

PHTH 436	Kinesiology	3
PHTH 438	Manual Muscle Testing	3
PHTH 465	Exercise Physiology	3
PHTH 495, 496	Research I, II	3, 2
PHTH 502, 503	Neurology II, III	3, 3
PHTH 504	Pediatric Care I	3
PHTH 521-523	Orthopaedics I, II, III	3, 3, 3
PMPT 427	Human Life Sequence	2
PMPT 476	Therapeutic Exercise	3
PMPT 477	Locomotion Studies	3
AHCJ 311	Medical Terminology	2
AHCJ 328	Portfolio Practicum I	1
AHCJ 402, 403	Pathology I, II	4, 3
AHCJ 412	Anatomy	9
AHCJ 418, 419	Physiology I, II	4, 3
AHCJ 443, 444	Neuroanatomy I, II	4, 2
AHCJ 538	Histology	2
RELF 416	God and Human Suffering	2
RELF 440	World Religions	3

Year 2 - A

PHTH 413	Clinical Neurology	2
PHTH 501	Neurology I	2
PHTH 511	Clinical Orthopaedics	2
PHTH 512	Clinical Psychiatry	2
PHTH 515	Hand Rehabilitation for the Physical Therapist	2
PHTH 525, 526	General Medicine I, II	3, 3
PHTH 534	Soft-Tissue Techniques	2
PHTH 561	Physical Therapy Administration	4
PHTH 595-597	Applied Research I, II, III	1, 2, 1
PMPT 474	Physical Therapy Practicum	1.5
PMPT 524	Electrotherapy	2
PMPT 534	Hydrotherapy and Massage	2
PMPT 535	Hydrotherapy and Massage	2
PMPT 583	Physical Therapy Affiliation I	4
PMPT 591	Advanced Hand Re-	

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PHYSICAL THERAPY, Postprofessional Master of Physical Therapy

ADMISSION

To be eligible for admission, the applicant must have earned a bachelor's degree in physical therapy from an accredited program. There is no GRE requirement for acceptance into this program.

TESTS

A TOEFL score of 550 (213 if computer generated) is required for foreign students. All foreign transcripts, including high school, must be submitted to an approved evaluation service. The list of the four approved services can be obtained from the School of Allied Health Professions admissions office. Results of the evaluation are to be sent to this University directly from the evaluation center. Official foreign transcripts must be sent to the School of Allied Health Professions, directly from school to school, at the time of application.

DESCRIPTION

The Postprofessional Master of Physical Therapy Program is designed for individuals with a baccalaureate degree in physical therapy who wish to pursue advanced studies in their profession.

To practice physical therapy in the United States, one must meet the criteria of the state in which s/he wishes to practice. Credentials are evaluated based on the applicant's entry-level education. Postprofessional education cannot be used for this purpose.

ADMISSIONS

PHYSICAL THERAPY, Postprofessional Master of Physical Therapy

The program of instruction outlined as follows is for students enrolled during the 2004-2005 academic year.

PHTH	529	Pathokinesiology of Gait	3
PHTH	531	Soft-Tissue Mobilization	3
PHTH	545	Orthopaedic Interventions: Mobilization of Peripheral Nerves and Diarthroidal Joints of the Extremities	3
PHTH	548	Function-Based Rehabilitation	3
PHTH	598	Advanced Specialty Tracks	3
AHCJ	505	Educational Psychology for Health Professionals	3
AHCJ	509	Teaching and Learning Styles	3
AHCJ	511	Biostatistics I	3
AHCJ	526	Computer Applications II	3
AHCJ	538	Histology	3

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REGIONAL FAIRFAX UNIVERSITY Entry-Level Doctor of Physical Therapy

HEALTH CARE ADMINISTRATION

The Entry-Level Doctor of Physical Therapy Program (D.P.T.) is designed for individuals who have no previous degree in physical therapy and wish to pursue a Doctor of Physical Therapy degree and professional certification. Admission to the University follows presentation of three academic years of prerequisites earned at a regionally accredited college or university. The program is 3.25 years in length. The emphasis in the program is on professional courses, ethics, and practical experience. Additional emphasis is placed on research and specialized clinical affiliations.

Accreditation

The program is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association, 111 North Fairfax Street, Alexandria, VA 22314; telephone 703/706-3245.

Clinical Experience

Supervised experience is obtained in a variety of settings and at different times during the program. First-year students complete one two-week practicum assignment during the Spring Quarter. Second-year students complete one three-week assignments during the Autumn Quarter. The major clinical assignments are during the third year. The student will be assigned one three-week clinical rotation and one ten-week affiliation during Summer Quarter, an eleven week affiliation during Winter Quarter and one ten-week affiliation during Spring Quarter. The final affiliation is ten weeks in length during Summer Quarter.

All clinical assignments will be made by the academic coordinator of clinical education or a designate. Because of the limited number of local facilities available, assignments cannot be made on the basis of the student's family/marital status or personal preference. Although the department makes an effort to accommodate the student's preference, the student agrees to accept the clinical assignments made by the department at any of the affiliated facilities, whether local or out of state.

ADMISSION

Subject Requirements for Admission

To be eligible for admission, the applicant must have a minimum G.P.A. of 3.0 and must have completed a minimum of 138 quarter units at a regionally accredited college or university. Admission is a selective process. Criteria used include: G.P.A., completion of subject requirements, interview, essay, recommendations, and work experience.

The minimum subject admission requirements in quarter units are listed below. Grades of C- and below are not transferable for credit.

Prerequisites for Entry-Level Doctor of Physical Therapy

Individuals who already have a bachelor's degree from a regionally accredited college or university need to complete only the prerequisites denoted with an asterisk (*).

Humanities/Religion, minimum of 28 units. If applicants have attended a Seventh-day Adventist college or university, they must have a minimum of 4 units religion per year (up to 12).

All applicants must have a minimum of 16 units in humanities selected from at least two of the following areas: civilization/history, fine arts, literature, modern language, philosophy, performing/visual arts (not

PHYSICAL THERAPY, Postprofessional Doctor of Physical Therapy

AMERICAN COLLEGE

PHYSICAL THERAPY, Postprofessional Doctor of Physical Therapy

The program of instruction outlined as follows is for student enrolled during the 2004-2005 academic year.

PHTH	541	Advanced Clinical Practice I	3
PHTH	542	Advanced Clinical Practice II	3
PHTH	543	Advanced Clinical Practice III	3
PHTH	629	Lower-Quarter Biomechanical Relationships	3
AHCJ	507	Pharmacology in Rehabilitation	3
AHCJ	516	Clinical Imaging	3
AHCJ	518	Neurobiology	3
AHCJ	527	Medical Screening for Rehabilitation Professionals	3
AHCJ	551	Professional Systems in Management I	3
AHCJ	605	Critical Analysis of Scientific Literature	3
AHCJ	699	Directed Study	3
RELR	525	Health Care and the Dynamics of Christian Leadership	3
_____	_____	Electives	9

ADMISSION

Regular meetings to provide the student with guidance and evaluation. Elected on the basis of need or interest.

HH 21 Neurology I

Basic physiological and neurophysiological mechanisms specific to therapeutic concepts. Clinical approach to pathology and trauma of the central and peripheral nervous systems. Stroke, spinal cord injury, and head injuries. Emphasis on clinical application.

HH 26 Neurology II

Basic physiological and neurophysiological mechanisms specific to therapeutic concepts. Clinical approach to pathology and trauma of the central and peripheral nervous systems. Emphasis on proprioceptive neuromuscular facilitation.

HH 30 Neurology III

Continuation of basic physiological and neurophysiological mechanisms specific to therapeutic concepts. Clinical approach to pathology and trauma of the central and peripheral nervous systems. Emphasis on comparing and contrasting facilitation techniques.

HH 31 Pediatric Care

Discussion of the etiology, associated problems, and physical therapy care of clients with cerebral palsy, spina bifida, and various orthopaedic disorders. Includes presentation and demonstration of adaptive equipment options. Laboratory demonstrations. Introduction to the physical therapist's role in the NICU.

HH 32 Lower quarter biomechanical relationships

Advanced examination procedures for performing a biomechanical assessment of the lower extremities. Emphasis on identifying causes of, compensations for, and complications of movement dysfunctions associated with lower-extremity musculoskeletal pain syndromes. Physical therapy management of gait abnormalities.

HH 33 Clinical Orthopaedics

Systematic review of disease and injury affecting the musculoskeletal system (particularly the hands), resulting in physical disability. Conditions caused by congenital deformities, fractures, trauma, tumors, disease, and sports injuries. Radiologic terminology, properties, and imaging.

HH 34 Clinical Psychiatry

Introduction to mental and personality disorders. Review of abnormal behaviors commonly found in a clinical setting.

HH 35 Topics in Rehabilitation

Lecture and discussion of current topics relating to the practice of physical therapy. Content varies from quarter to quarter. (May be repeated for additional credit for a maximum of 6 quarter units.)

HH 36 Electrotherapy

Principles and techniques of electrotherapy procedures, including electrodiagnosis. Basic physical and physiological indications and contraindications. Lecture, demonstration, and laboratory.

HH 41 Orthopaedics I

Basic theory of extremity mobilization. Each joint presented in relationship to articular and periarticular structures that determine joint function and dysfunction. Evaluation and mobilization techniques.

HH 42 Orthopaedics II

Basic theory of spinal evaluation and treatment techniques. General principles of functional anatomy, tissue and joint biomechanics, pathology, and treatment. Medical exercise training.

HH 43 Orthopaedics III

Basic theory of spinal evaluation and treatment techniques. General principles of functional anatomy, tissue and joint biomechanics, pathology, and treatment. Medical exercise training.

HH 44 Hand Rehabilitation for the Physical Therapist

Functional anatomy and pathophysiology in the diagnosis and treatment of the forearm, wrist, and hand. Common problems, integrated scientific knowledge base into treatment choice. Rational and general treatment concepts for, but not limited to, fractures, joint derangement, stiffness, flexor and extensor multiple-system trauma, arthritis and vascular disorders. Common surgical procedures of the forearm, wrist, and hand; as well as basic concepts and practical application of static and dynamic splinting.

HH 45 General Medicine I, II

Medical and surgical disorders. Basic pathology and/or etiology and clinical manifestations. Medical treatment for conditions within selected spe40 -1.11765 T2 proced

trends in general medicine physical therapy. Development of advanced clinical skills, where appropriate.

AS 221 Anatomy

Anatomy of the human body, with emphasis on the neuromuscular and skeletal systems, including anatomical landmarks. Basic neuroanatomy of the central nervous system.

AS 222 Applied kinesiology

Introduction to functional anatomy of the musculoskeletal system. Application of biomechanics of normal and abnormal movement in the human body. Introduction to components of gait. Lecture and laboratory. Prerequisite: PTAS 201.

AS 223 Introduction to physical therapy

Physical therapy practice and the role of the physical therapist assistant in providing patient care. Quality assurance. Interpersonal skills. Introduction to the multidisciplinary/team approach. Familiarization with health care facilities and government agencies.

AS 224 Documentation Skills

Introduction to basic abbreviations, medical terminology, chart reading, and note writing.

AS 225 Physical therapy procedures

Principles of basic skills in the physical therapy setting. Goniometry. Sensory- and gross-muscle testing. Mobility skills in bed and wheelchair, and transfer training. Gait training and activities of daily living. Body mechanics, positioning, and vital signs. Architectural barriers identified. Teaching techniques for other health care providers, patients, and families. Wheelchair measurement and maintenance. Lecture and laboratory.

AS 226 General Medicine

Introduction to general-medicine conditions, including pathology and management of medical problems. Diseases of the body systems, including urinary, reproductive, digestive, circulatory, endocrine, and musculoskeletal. Theoretical principles and practical application of respiratory techniques, exercises, and postural drainage. CPR certification required before end of term.

AS 227 Neurology

Introduction to neurological conditions, including pathology and management of medical problems of stroke, head injury, Parkinson's disease, spinal cord and nerve injuries, and other conditions.

AS 228 Orthopaedics I

Introduction to common orthopaedic conditions, pathologies, and surgical procedures of the peripheral joints. Introduction to joint mobilization. Procedures and progression of therapeutic exercises for each specific joint covered, as these exercises relate to tissue repair and healing response. Practical laboratory includes integration of treatment plans and progressions.

AS 229 Therapeutic exercise

Introduction to therapeutic exercise theories and practical applications. Tissue response to range of motion, stretch, and resistive exercise. Laboratory covers practical applications of various types of exercise techniques and machines used in the clinics, and a systematic approach to therapeutic exercise progression.

AS 230 Physical therapy Modalities

Basic physical therapy modalities—including heat-and-cold application, hydrotherapy and massage, pool therapy, physiology and control of edema, stump wrapping, standard precautions, and chronic-pain management. Lecture and laboratory.

AS 231 Applied electrotherapy

Principles and techniques of electrotherapy procedures, including basic physiological effects. Indications and contraindications for specific electrotherapy modalities. Practical application and demonstration of modalities in a laboratory setting.

AS 232 Wound Care

Normal structure and function of the skin. Pathology of the skin, including problem conditions, burns, and wounds. Lecture and laboratory to include wound identification, measuring, dressing, treatments, and debridement. Model wounds used for hands-on training.

AS 233 Applied pediatrics

Normal and abnormal development, from conception to adolescence. Emphasis on developmental sequence, testing, and treatment of neurological and orthopaedic disorders. Practical laboratory.

AS 234 Applied geriatrics

Introduction to various aspects of geriatric care. Wellness care and adaptation to exercise modalities. Procedures pertaining to the geriatric patient. Diagnosis and aging changes that affect function in geriatric rehabilitation.

AS 235 Introduction to Athletic Training for the Physical Therapist Assistant

Introductory study of the neuromusculoskeletal system as it applies to the athletic population. Development and implementation of a sports-medicine program, participation in physical examination, medical emergencies in the sports-medicine setting, criteria for return to play, types and frequency of sport-specific injuries, pre-game sidelines/courtside set-up, techniques of athletic-tape application to various body locations, and on-field examinations.

AS 236 Orthopaedics II

Introduction to common orthopaedic conditions, pathologies, and surgical procedures of the spine. Treatments, procedures, and progression of therapeutic exercises of the spine as related to tissue repair and healing response. Practical laboratory includes integration of treatment plans and progressions.

AS 237 Applied neurology

Introduction to facilitation techniques of neurodevelopmental treatment, proprioceptive neuromuscular facilitation, Brunnstrom, and principles of therapeutic exercise of the cardiac patient. Practical laboratory.

AS 238 Physical therapy practice

Observations of evaluations, treatments, and various diagnoses. Billing procedures and third-party payors. Completion of a resume and a state licensing application. Preparation and presentation of case study and in-service.

AS 239 Applied prosthetics and orthotics

Introduction to basic principles in the use of selected

prosthetic and orthotic devices. Exposure to various types of devices and adjustment to devices; examination of indications and contraindications for orthotic and prosthetic use with patients seen in physical therapy.

Prerequisite: PTAS 203.

AS Professional Seminar

Contemporary theories and practices of physical therapy. Topics covered by faculty and guest lecturers may include: sports taping, ortho taping, soft tissue, geriatric experience through affective learning, Meyers-Briggs personality categories, Kolb learning styles, vestibular rehabilitation, music therapy, and hand therapy. Lecture and laboratory.

AS Psychosocial Aspects of Health

Psychological and sociological reactions to illness or disability. Includes trauma, surgery, and congenital and terminal illness. Individual and family considerations.

AS Physical Therapist Assistant Practicum

Two-week assignment to be completed during the Winter Quarter in an affiliated clinical setting. Emphasis on patient and staff working relationships. Awareness of patient disorders and limited application of physical therapy techniques. Forty clock hours per week of supervised clinical experience.

AS Physical Therapist Assistant Affiliation I, II, III

I: One six-week assignment to be completed during the Spring Quarter.

II, III: Two six-week assignments to be completed in affiliated clinical settings during the second Summer Quarter. Exposure to a variety of clinical facilities. Forty clock hours per week of supervised clinical experience. The combined total of twenty weeks of clinical experience prepares the student for entry-level performance.

C I

See CONJOINT COURSES, section III General Information, for course descriptions.

C A

H Aspects of Health Promotion

Dynamics of community and individual health. Factors in the promotion of a healthful lifestyle, including cardiovascular enhancement, stress reduction and coping mechanisms, nutritional awareness, weight management, and substance control.

M AM Advanced Human Growth and Development

M Human biological, dirng cardiovascul: sports taping, ortho tap43ova1.11765 TD(weigE13 Human G/F0 1 Tf1Torts t0 1 orts 44h5tS

ASSOCIATE IN SCIENCE

ASSOCIATE IN SCIENCE, Associate in Science

ASSOCIATE IN SCIENCE, Bachelor of Science

ASSOCIATE IN SCIENCE, Bachelor of Science Certificate

ASSOCIATE IN SCIENCE, Bachelor of Science Post-Bachelor of Science Certificate

ASSOCIATE IN SCIENCE, Certificate

ASSOCIATE IN SCIENCE, Certificate

ASSOCIATE IN SCIENCE

Laura L. Alipoon
Kelly A. Burk
Mark J. Clements
Noha S. Daher
Carol A. Davis
Marie M. DeLange
Intithar S. Elias
Erma P. Ezpeleta
Barbara S. Holshouser
Noriece R. Kisinger
Arthur W. Kroetz
Steven L. Leber
Renee N. S. Mercado
Terese R. Pfeiffer

You can count on a
friendly greeting and
a helping hand from
Beverly Martinez,
administrative secretary
in the Department of
Radiation Technology.

ASSOCIATE IN SCIENCE

Brenda S. Holden
Helen J. King
Glenn A. Rouse

ASSOCIATE IN SCIENCE

For tuition information, please see section II,
Financial Information, SCHEDULE OF CHARGES.

MEDICAL RADIOGRAPHY, Associate in Science

The medical radiographer, or radiologic technologist, is responsible for the accurate imaging of body structures on a radiograph or other image receptor. The technologist determines proper exposure factors, manipulates medical imaging equipment, evaluates the radiographic image for quality, and provides for patient protection and comfort.

The technologist frequently assists the physician team member in specialized procedures. These often require the administration of chemical mixtures to the patient for enhanced viewing of the function of body systems.

HANDS ON

The Medical Radiography Program begins with the Autumn Quarter and is based on the completion of one year of prerequisite course work at any accredited college or university. The first quarter at Loma Linda University primarily emphasizes the theoretical aspects of radiography, with one day per week in clinical orientation. The remaining five quarters combine clinical training on a two-to-five-days-per-week basis, with more advanced classroom topics. The schedule extends through vacation periods and may involve some evening assignments.

Affiliations

For the clinical portion of the program, students are assigned to one of the affiliated medical centers: Loma Linda University Medical Center and Loma Linda University Community Medical Center, Inland Valley Regional Medical Center, Hemet Valley Medical Center, Eisenhower Medical Center, Desert Hospital, Redlands Community Hospital, Menifee Valley Medical Center, Pioneer Memorial Hospital, El Centro Regional Medical Center, White Memorial Medical Center, or St. Mary Regional Medical Center.

Accreditation

The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 North Wacker Drive, Suite 900, Chicago, IL 60606-2901; telephone 312/704-5300. The program is also approved by the State of California Department of Health Services.

CARDIO-PULMONARY

Students are required to have current cardio-pulmonary resuscitation (CPR) certification (adult and child) for all scheduled clinical experience. Classes are available on campus at Life Support Education, University Arts building,

required prerequisites for Radiation Sciences
 20 units minimum in humanities (choose minimum of two areas from: history, literature, philosophy, foreign language, art/music appreciation/history)
 Included in this minimum, 4 units of religion per year of attendance at a Seventh-day Adventist college or university
 Human anatomy and physiology with laboratory, one semester/quarter minimum; **or** general biology with laboratory, complete sequence
 Additional natural science units from: chemistry, geology, mathematics, physics, and statistics
 Must have a total of 12 quarter hours, including up to 6 units from anatomy and physiology

Two years high school mathematics with grades of C or above, **or** intermediate algebra in college
 Cultural anthropology **or** an approved course dealing with cultural diversity
 Select 8 quarter units from: economics, geography, political science, psychology, sociology, or anthropology
 English composition, complete sequence
 Personal health or nutrition
 Two physical activity courses
 Electives to meet the minimum total requirements of 42 quarter units

AMERICAN SCIENCE
 Bachelor of Science

Core courses and religion studies		units
RTCH 385	Current Issues in Radiation Sciences I	2
RTCH 464	Moral Leadership	2
RTCH 471	Applied Research Methods	1
RTCH 485	Current Issues in Radiation Sciences II	2
RTCH 494	Senior Project	2-3
RTMR 451	Management of a Radiologic Service	3
AHCJ 305	HIV/AIDS and the Health Provider	1
AHCJ 308	Professional Communications	1-2
AHCJ 328	Portfolio Practicum I	1
AHCJ 351	Statistics for the Health Professions	3
AHCJ 461	Research Methods	2
AHCJ 465	Seminars in Leadership	2
AHCJ 498	Portfolio Practicum II	1
REL_ ___	Religion electives	8

ADMINISTRATIVE BASIS

ADMINISTRATIVE BASIS		units
RTCH 411-412	Student-Teaching Practicum I, II	2, 2*
RTCH 413-414	Radiologic Management Practicum I, II	2, 2*
RTCH 475	Curriculum Development in Health Sciences	2
RTMR 454	Quality Management in Radiation Sciences	2
RSTH 471	Instructional Techniques I	2

A minimum grade of C (2.0) is required for all classes.
 *Total of 4 units to be chosen from RTCH 411, 412, 413, 414.

CLINICAL SPECIALTIES

A six-to-twenty-four month, full-time internship in a second clinical specialty selected from the following areas:

CLINICAL SPECIALTY	UNITS AND O.A.D.B.D.	CLINICAL SPECIALTY	UNITS AND O.A.D.B.D.
Medical sonography	38 units	Special imaging technology	18 units
Echocardiography	18 units	Radiation therapy technology	26-41 units
Nuclear medicine technology	18 units		

Acceptance into these specialties is separate from acceptance into the baccalaureate program. For more detailed information about admission requirements and the program of instruction, request an outline of the certificate programs in these specialties.

CSCIENCE

12-15 quarter units selected from the natural sciences in the areas of: biology, anatomy, physiology, medical terminology, and physics.

ALLIED HEALTH CARE, Bachelor of Science

Radiation therapy is a multifaceted career that combines working in a highly technical environment with the opportunity to work closely with patients and members of many other professions to provide a high standard of clinical care. Radiation therapy is the therapeutic application of ionizing radiation to malignant and benign conditions. The therapist is responsible for delivering the treatment, which is prescribed by a radiation oncologist; maintaining accurate treatment records; and imple-

I M S

The student in the baccalaureate program completes:

- the General Education requirements;
- the radiation sciences core requirements;

- an area of emphasis (administration and education is the only emphasis offered through distance learning at this time).
- Electives are selected from existing courses after consultation with the program adviser.

AM I S C I

BA I H A CH L A Bachelor of Science

Required Core Courses and Religion Studies

			units
RTCH	385	Current Issues in Radiation Sciences I	2
RTCH	471	Applied Research Methods	1
RTCH	494	Senior Project	2
RTMR	451	Management of a Radiologic Service	3
RTMR	454	Quality Management in Radiation Sciences	2
AHCJ	305	HIV/AIDS and the Health Provider	1
AHCJ	328	Portfolio Practicum I	1
AHCJ	351	Statistics for the Health Professions	3
AHCJ	461	Research Methods	2
AHCJ	498	Portfolio Practicum II	1
EMMC	314	Introduction to 12-Lead ECG Interpretation	1
EMMC	484	Legal Issues in Health Care	2
RELF	416	God and Human Suffering	3
RELF	423	Loma Linda Perspectives	2
RELE	457	Christian Ethics and Health Care	3

Track A

			units
RTTH	332	Radiation Biology	1
RTTH	342	Patient-Care Practices in Radiation Therapy	2
RTTH	344	Radiation Therapy Procedures	2
RTTH	345	Quality Assurance in Radiation Therapy	1
RTTH	348	Radiation Therapy Review	1
RTTH	353	Psycho-Oncology	2
RTTH	355	Physical Principles of Radiation Therapy	3
RTTH	356	Physical Principles of Dosimetry	3
RTTH	357	Applied Dosimetry	2
RTTH	358	Advanced Dosimetry (with laboratory)	3
RTTH	364	Radiation Oncology I	3
RTTH	365	Radiation Oncology II	3
RTTH	371-374	Radiation Therapy Affiliation I, II, III, IV	1, 1, 1, 1
RTTH	381, 382	Topics in Radiation Therapy	2, 2
AHCJ	402	Pathology I	4
AHCJ	403	Pathology II	3-4
AHCJ	404	Pharmacology	1
DTCS	301	Human Nutrition	3

Track B

			units
RTCH	411	Student Teaching Practicum I	2
RTCH	413	Radiologic Management Practicum I	2
RTCH	464	Moral Leadership	4*
RTCH	470	Curriculum Development in Health Science	2
RTTH	353	Psycho-Oncology	2
RTTH	358	Advanced Dosimetry (with laboratory)	3
AHCJ	402	Pathology I	4
AHCJ	403	Pathology II	3-4
AHCJ	404	Pharmacology	1
AHCJ	465	Seminars in Leadership	2*
DTCS	301	Human Nutrition	3
RSTH	471	Instructional Techniques I	2

*Either RTCH 464 or AHCJ 465 may be taken.

ALLIED HEALTH, Certificate

During the twelve-month certificate program of clinical studies in radiation therapy technology, students take formal course work along with instruction in the clinical aspects of radiation therapy. The program begins with the Autumn Quarter. The clinical portion of the program consists of practical demonstrations in the use of radiation therapy equipment and an opportunity to participate, under close supervision, in actual radiation therapy procedures in a variety of radiation oncology departments. The clinical calendar varies from the University calendar in that the clinical schedule is full time (forty clock hours per week), arranged around lectures, and coordinated with the operation of the Loma Linda University Medical Center radiation medicine department.

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HAMCIS

Upon completion of the program, the graduate should be qualified to:

1. Develop and refine critical thinking skills to enhance their ability to analyze and develop the most effective means of care for their patients.
2. Demonstrate leadership skill through advanced and multilevel thinking in clinical practice.
3. Synthesize pertinent patient data from diagnostic images and patient interviews to suggest and implement appropriate patient management and clinical pathways.
4. Develop and refine their skills in performing fluoroscopy and other radiology procedures.
5. Exhibit professional behavior in all interactions, including communicating appropriately with patients, colleagues and others with whom they come in contact.
6. Demonstrate teamwork in the clinical setting and other situations where this concept leads to completion of goals that an individual could not easily meet alone.
7. Participate in educational and professional activities, sharing knowledge with colleagues, and investigating new and innovative aspects of professional practice.
8. Support the profession's code of ethics and comply with the profession's scope of practice.

AMISSI

To be eligible for admission, the applicant must have:

- A maximum of 105 quarter or 70 semester units from an accredited community college, which will

be accepted as transfer credit, including units for clinical education. Students who have completed a hospital training program are allowed 48-quarter units (as part of the maximum) of academic credit on the basis of their registry certificate.

- Certification from the American Registry of Radiologic Technologists (ARRT)
- A minimum of two years of full-time radiography work experience
- Prerequisites for Radiologist Assistant, B.S. degree

Please contact the program director for guidance concerning prerequisites.

20 quarter or 14-semester units minimum (choose a minimum of two areas from: history, literature, philosophy, foreign language, art/music appreciation/history).

Also included in the above minimum, 4 units of religion per year of attendance at a Seventh-day Adventist college or university

12 quarter or 8 semester units from 2 areas, to include anatomy and physiology, statistics, and research methods.

12 quarter or 8 semester units, to include cultural anthropology or an approved course dealing with cultural diversity

9 quarter or 6 semester units, to include a complete sequence of freshman English

3 quarter or 2 semester units to include two physical activities and a personal health or nutrition course

Electives to bring the total units, to 71 quarter or 48 semester units of General Education

or total unit requirements for graduation, see Division of General Studies, LLU GENERAL EDUCATION CURRICULUM, Section V.

AMISSI Bachelor of Science

The program of instruction outlined below is for students admitted during the 2004-2005 academic year. Entrance to the clinical year is contingent upon the completion of all prior requirements. The Bachelor of Science degree program consists of 65 units:

Course	Units	
RTCH 464	Moral Leadership	2
RTRA 331	Pharmacology I	2
RTRA 332	Pharmacology II	2
RTRA 344	Medical Anatomy and Physiology	2
RTRA 351	Patient Assessment I	2
RTRA 346	Clinical Management and Education	2
RTRA 352	Patient Assessment II	2
RTRA 371	Clinical Internship	1
RTRA 372	Clinical Internship	1
RTRA 373	Clinical Internship	2
RTRA 384	Radiobiology and Health Physics	3
RTRA 385	Radiology Procedures and Image Evaluation I	3
RTRA 386	Radiology Procedures and Image Evaluation II	4
RTRA 387	Radiology Procedures and Image Evaluation III	4

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AMERICAN
 SOCIETY OF ULTRASOUND MEDICAL SONOGRAPHERS
 Certificate

The program of instruction outlined below is for students enrolled during the 2004-2005 academic year.

ACREDITED
 1 year certificate

with Prerequisites: General Medical, V

RTMS 344	Introduction to Medical Sonography	1 or 4
RTMS 345	OB-GYN and Neurosonography	4
RTMS 346	Vascular Technology/Doppler/Scan Techniques	5
RTMS 348	Abdomen Small-Parts Sonography	4
RTMS 371-378	Medical Sonography Clinical Affiliation	1, 1, 1, 1, 1, 1, 1, 1
RTMS 379	Ultrasound Physics and InstruSon or 4	

MEDICAL SIMULATION Certificate

HEALTH AM

The certificate program in medical dosimetry is designed to train personnel in the discipline of dosimetry within a radiation oncology environment, and to prepare them to take the certified medical dosimetrists board examination (CMD).

Medical Dosimetry is a very dynamic, exciting field involving a combined knowledge of mathematics, physics, and the biological and medical sciences. Dosimetrists plan optimal isodose distributions and treatment dose calculations for a variety of external beam as well as brachytherapy treatments. The medical dosimetrists must possess excellent analytical skills, an ability to critically evaluate data, and an aptitude for physics and mathematics. They must also be able to work closely as a team with physicists, physicians, radiation therapists, and other personnel.

Due to a lack of training programs in this discipline throughout the United States, there is a shortage of medical dosimetrists in many areas of the country. This program will aim to provide a supply of well-trained dosimetrists who will be able to meet the needs of Radiation Oncology

AMERICAN
MEDICAL SIMULATION Certificate

The program of instruction outlined below is for students enrolled during the 2004-2005 academic year.

Baccalaureate in Physics

Pre-requisite: Anatomy and physiology (no lab required) and Medical Terminology

FALL QUARTER

RTMD 355	Physical Principles of Radiation Therapy I	3
RTMD 361	Practicum 24 hours/week	1
RTSI 367	Cross-sectional Radiographic Anatomy	3
RTTH 344	Basic Principles of Radiation Therapy	2
RTTH 364	Radiation Oncology I	3
RELE 457	Christian Ethics and Health	

CL A M I C I , C H L , Certificate

Nuclear medicine uses radioactivity to diagnose and treat disease. This medical specialty provides information about both the structure and the function of virtually every major organ system within the body. Nuclear medicine procedures are safe, involve little or no patient discomfort, and do not require the use of anesthesia. The nuclear medicine technologist is responsible for preparing and administering radiopharmaceuticals; performing patient-imaging procedures; accomplishing computer processing and image enhancement; analyzing biologic specimens; and providing images, data analysis, and patient information for diagnostic interpretation by the physician health care-team member.

H A M

During the twelve-month certificate program of clinical studies in nuclear medicine, students take formal course work along with instruction in the clinical aspects of nuclear medicine. This includes participation, under close supervision, in the actual procedures within the nuclear medicine department. The clinical calendar varies from the University calendar in that the clinical schedule is full time (forty clock hours per week), arranged around lectures and coordinated with affiliated nuclear medicine departments. The program begins with the Autumn Quarter.

Accreditation

The program is accredited by the Western Association of Schools and Colleges, Accrediting Commission for Senior Colleges and Universities, 985 Atlantic Avenue, Suite 100, Alameda, CA 94501; and by the Department of Health Services, Radiologic Health Branch, P.O. Box 942732, Sacramento, CA 94234-7320.

J S A C , C A I

The Nuclear Medicine Technology Program is offered via distance education at Fresno City College, Fresno, California.

C C I C A I

Students are required to have current cardiopulmonary resuscitation (CPR) certification (adult and child) for all scheduled clinical experience. Classes are available on campus at Life Support Education, University Arts building, 24887 Taylor Street, Suite 102.

S S I A L , I S A I A , C I C A I

Upon completion of the certificate requirements, the student is eligible to write the qualifying examination in nuclear medicine of The American Registry of Radiologic Technologists (ARRT), and the certifying examination of the Nuclear Medicine Technology Certification Board (NMTCB) and of the state of California (CTNM).

A M I S S I

required prerequisites for Nuclear Medicine Technology Certificate

The applicant must fulfill one of the following requirements:

- Be a graduate of an accredited radiologic technology program; **or**
- Be an ARRT-registered radiologic technologist; **or**
- Be an ASCP-certified medical technologist; **or**
- Be a registered nurse with at least two years of college credit, with a minimum of an associate degree; **or**

Have a baccalaureate degree in one of the natural sciences;

and

must have credits in the following:

- Two years high school mathematics with grades of C or above **or** intermediate algebra in college
- Chemistry with laboratory (one quarter/semester introductory or general)
- General physics with laboratory, complete sequence (highly recommended)
- Human anatomy and physiology with laboratory, complete sequence
- Medical terminology
- Patient-care methods

Observation & Experience
 A minimum of twenty-four hours of observation in a nuclear medicine department is required.

Certifications

1. CPR certification (adult, child)
2. Venipuncture*
3. ECG/EKG interpretation*

If the student is unable to complete these three certifications prior to entering the program, then equivalent courses** can be taken concurrently with the program.

** offered by:
 # LLU Life Support Education or
 * LLU Medical Center Staff Development

AMERICAN SOCIETY OF CLINICAL RADIOLOGISTS Certificate

The program of instruction outlined below is for students enrolled during the 2004-2005 academic year.

RTNM	351, 352	Principles of Nuclear Medicine I, II	3, 3
RTNM	353, 354	Nuclear Medicine Procedures I, II	2, 2
RTNM	371-374	Nuclear Medicine Affiliation I, II, III, IV	1, 1, 1, 1
RTNM	381	Topics in Nuclear Medicine I	2
RELE	457	Christian Ethics and Health Care	2

A minimum grade of C (2.0) is required for all courses in the program.



Some of the people you will see when enrolled in one of the many programs in our Department of Radiation Technology are (left to right) Mark Clements, Laura Alipoon, and Dolly Kisinger (faculty); Art Kroetz (department chair); Carol Davis (faculty); Beverly Martinez (department secretary); and Steve Leber and Erma Ezpeleta (faculty).

C S S

For information about units of credit and course numbers, see the beginning of section III of this BULLETIN.

CH 360 Current Issues in Radiation Sciences I
A faculty-facilitated course that includes class discussion, small-group work, and presentation of student projects. Students choose the direction of their learning within the scope of the content by choosing the content of their group work and projects.

CH 361 Student Teaching Practicum I
Classroom teaching experience. Includes preparation of lecture outlines, objectives, and tests. Presentation of lectures and laboratory sessions. Practical application of teaching techniques.

CH 362 Radiologic Management Practicum I
Observation of and discussion with selected administrative personnel in a radiology service. Emphasis on practical application of management theory. Projects assigned.

CH 363 Moral Leadership
Methods of applying servant leadership to management and educational settings. Concepts of managing learners and professionals, assessing leadership style, the essence of leadership, leadership skill building, and conflict management discussed within a moral framework. Assigned readings, discussions, papers, and personal inventories utilized to aid in assessing the learner's leadership skills.

CH 364 Applied Research Methods
Application of research methods to radiation sciences. Directed experience with a research project. Laboratory.
Prerequisite: AHCJ 351.
Concurrent: AHCJ 461.

CH 365 Curriculum Development in Health Sciences
Curriculum development theories and approaches applied to the health-science arena. Development of a seminar, course, or curriculum. Designing assessment tools and procedures, designing a learning experience, selecting appropriate technology tools and objective teaching t Units. Stk, ent 5 Tsul to manage-and prexperiedvi ap[(s.assesJ 461.)TjETI

M—29 Treatment Planning I

Course will include an in-depth study of the planning of isodose distributions and dose calculations within different target volumes. Topics covered include IMRT, conformal therapy, and stereotactic radiosurgery.

M—29 Treatment Planning II

The course is designed to develop the student's ability to construct treatment plans using 3D/IMRT planning techniques. It integrates theory with practice. Students are required to complete a number of plans that utilize all the major treatment techniques. The plans on which students will be working will be decided by anatomical tumor site. There will be a brief lecture at which plans of specific tumors are shown and discussed, and then students will be expected to produce similar plans. The student is expected to build a notebook of plans and present them to the class as a mid-term and final examination.

M—20 Special topics

This seminar course allows for in-depth study of 'cutting edge' techniques within Radiation oncology and in the diagnostic modalities that serve to support them. These topics include IMRT, TBI, USGI, IORT, MLC, Dyn.11se m0 Tc.ile1 VT*0110 .9562 Tm-0.0002 Tc(RTMD 302 T)Tjns using 3D/IMRT plan-

Advanced Clinical Internship I
 During the mentored clinical experience, students complete a wide variety of competencies and generate a report stating initial observations of diagnostic images on neonatal, pediatric, adult, and geriatric populations. Students utilize clinical contracts and a clinical portfolio.

Advanced Radiobiology and Health Physics
 Reviews the effects of ionizing and nonionizing radiation and fundamental concepts of radiation protection. Designed to promote the conscientious operation of radiologic and fluoroscopic devices. Provides a complement to guided practice in operating the fluoroscopic device during clinical mentoring. Procedures and techniques to optimize image quality while reducing radiation exposure to patients, operator, and ancillary personnel.

Advanced Radiology Procedures and Image Evaluation I, II, III
 Provides a framework for various imaging procedures and the role of the radiologist assistant in the radiology department. Designed to provide the framework for systematic observation of static, digital, X-sectional, and dynamic diagnostic images for the purpose of evaluating the presence of abnormalities, anomalies, and pathological conditions.

Advanced Clinical Internship II
 During the mentored clinical experience, students complete a wide variety of competencies and generate a report stating initial observations of diagnostic images on neonatal, pediatric, adult, and geriatric populations. Students will utilize clinical contracts and a clinical portfolio.

Advanced Clinical Internship III
 During the mentored clinical experience, students complete a wide variety of competencies and generate a report stating initial observations of diagnostic images on neonatal, pediatric, adult, and geriatric populations. Students will utilize clinical contracts and a clinical portfolio. *RTRA 373, 471-474 will have a minimum of 312 clock hours per quarter.

Advanced Radiologist Assistant Research Project
 Student completes a faculty-facilitated research project related to radiation sciences. Radiation sciences faculty must approve all projects.

Advanced Comprehensive Review
 Review of the major content areas covered in the radiologist assistant program. Student evaluation and performance analysis accomplished.

Advanced MRI Physics I
 Basic principles, physics, imaging parameters, biological effects, management, and patient protocol of magnetic resonance imaging (MRI).

Advanced MRI Physics II
 Basic principles, physics, imaging parameters, biological effects, management, and patient protocol of magnetic resonance imaging (MRI).
 Prerequisite: RTSI 361.

Advanced Patient Care in Special Imaging
 Overview of patient care in MRI and CT imaging. General aspects of patient care, pharmacology and drug administration, radiation safety. Examines some areas of radiology management. Prepares students for the additional areas required in the National Registry for the specialty areas of CT and MRI.

Advanced Cross sectional Radiographic Anatomy
 Overview of gross anatomy. Identification of normal anatomy in two-dimensional as well as three-dimensional planes. Relation of the structural as well as the physiological functions of the different body systems.

Advanced CT Physics
 Basic principles, physics, imaging parameters, radiological effects, management, and patient protocol of computed tomography (CT).

Advanced Special Imaging Affiliation I
 Nine months of clinical experience (three quarter terms of 520 clock hours per term) that provides a wide variety of experiences in computerized tomography (CT) and magnetic resonance imaging (MRI).

Advanced Special Imaging Affiliation II
 Nine months of clinical experience (three quarter terms of 520 clock hours per term) that provides a wide variety of experiences in computerized tomography (CT) and magnetic resonance imaging (MRI).

Advanced Special Imaging Affiliation III
 Nine months of clinical experience (three quarter terms of 520 clock hours per term) that provides a wide variety of experiences in computerized tomography (CT) and magnetic resonance imaging (MRI).

Advanced Topics in Special Imaging I, II, III
 Survey of selected topics in special imaging. Procedure summaries, projects, literature reviews. May be taken concurrently with RTSI 371-373 for credit toward the baccalaureate degree.

Advanced Special Project
 Project to be submitted in the form of a paper or a visual aid representing a topic of current interest in an area related to radiation sciences. Regular meetings to provide guidance to the student.

Advanced CRT Internships I, II, III
 Advanced clinical training for qualified CRT, ARRT-certified individuals with current CPR and fluoroscopy permit. Training involves three quarters (nine months) of clinical time in the areas of cardiovascular/general angiography and interventional radiography. Full-time clinical-learning experience involving forty hours per week.

Advanced Clinical Procedures I, II, III
 Credit for full-time, postcertification clinical practice in a radiology service. Periodic evaluations by the clinical supervisor.

Art Kroetz, Chair of the Department of Radiation Technology

SCHLA AHL AAL

SCHLA AHL, Associate in Science

SCHLA AHL, Bachelor of Science

SCHLA AHL, Post Bachelor of Science Certificate

KEIKO KHOO, Department Chair

JEAN B. LOWRY, Program Director for Master of Science and Certificate, Speech Language Pathology

PAIGE SHAUGHNESSY, Academic Coordinator for Clinical Education, Speech-Language Pathology and

SPEECH LANGUAGE AND HEARING, Certificate prerequisite

Any individual with a bachelor's degree from an accredited institution is eligible for the certificate (prerequisite) program. This program permits completion of undergraduate prerequisites before entering the graduate program. The individual must have a bachelor's degree from an accredited institution, with a G.P.A. of 3.0; and GRE scores will be required before admission to the graduate program. It is recommended that the applicant take the GRE before applying to the certificate program. Completion of the certificate program does not guarantee admission into the graduate program.

	AM	I S	C I	
SPEECH LANGUAGE AND HEARING, Certificate prerequisite				
SPPA 276	Communication Across the Lifespan			4
SPPA 314	Language Analysis for Speech-Language Pathologists			4
SPPA 317	Acoustic and Physiological Phonetics			2
SPPA 318	Transcription Phonetics			3
SPPA 324	Language Disorders of Children			4
SPPA 334	Phonological and Articulation Disorders			4
SPPA 376	Anatomy of Speech-Hearing Mechanism			4
SPPA 424	Adult Language Pathology			4
SPPA 434	Disorders of Fluency			2
SPPA 435	Voice Disorders			2
SPPA 444	Organic Speech Disorders			4
SPPA 477	Bilingualism and Biculturalism II			2
SPPA 485	Procedures and Materials in Speech-Language Pathology			4
SPPA 486	Diagnostic Methods in Speech-Language Pathology			4

*Students who plan to complete a Clinical Rehabilitative Services Credential-
Language, Speech, and Hearing will need to take the following additional course:*

PSYC 305	Psychological Foundations of Education	4
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NOTE: Students who plan to complete the requirements for the Certificate of Clinical Competence from the American Speech-Language-Hearing Association will need to have their undergraduate course work reviewed by the faculty adviser.

Jeanne Stoddard is the
administrative secretary
for the Department of
Speech-Language
Pathology and Audiology.
If you want to hear
someone properly
articulate the department's
name, telephone Jeanne.

SCHOOL OF ALLIED HEALTH PROFESSIONS
SCHOOL OF ALLIED HEALTH PROFESSIONS
ASSIS A . Associate in Science
H AM

The Speech-Language Pathology Assistant Program leads to the Associate in Science degree and prepares the student for professional registration as a speech-language pathology assistant (SLPA). The SLPA program at Loma Linda University is generally completed in two years. Students enter as sophomores, after having completed approximately one year of course work at any accredited college or university prior to acceptance into the program.

In January 2000, the State of California Board of Examiners in Speech-Language Pathology and Audiology, and the American Speech-Language-Hearing Association issued regulations for training, credentialing, licensing, and supervision for a new category of paraprofessional, i.e. the speech-language pathology assistant (SLPA). The program has been approved by the California State Department of Consumer Affairs and the Speech-Language Pathology and Audiology Board.

For more information, please contact the Department of Speech-Language Pathology and Audiology.

SCHLAPAHLAAL, Bachelor of Science

HAM

The Speech-Language Pathology and Audiology Program, leading to the Bachelor of Science degree, begins with the Autumn Quarter of the junior year. The freshman and sophomore years, which are taken at an accredited college/university afford the fundamentals of a liberal education. The emphasis in the junior and senior years is on professional courses and practical experience.

Clinical Experience

Supervised clinical practicum is an integral part of the student's education. Completion of specific theoretical courses precedes placement for practicum. Clinical practicum is available for students who have a GPA of 3.0 or above in the major courses.

Accreditation

The program is approved by the Council on Academic Accreditation of the American Speech-Language-Hearing Association, 10801 Rockville Pike, Rockville MD 20852; telephone 301/897-5700.

AAICIAL

The Speech-Language Pathology and Audiology Program is approved by the Commission on Teacher Credentialing to prepare students for the California Clinical Rehabilitative Services Credential in Language, Speech, and Hearing. Requirements for this credential include the completion of specific academic and clinical work at the graduate level.

A student preparing for a career in California schools should consult the department regarding specific course and practicum requirements for this credential.

HAMCIS

Upon completion of the program, the graduate should be qualified to:

1. Demonstrate a basic knowledge of the human communication processes, including:
 - the anatomic and physiologic bases for the normal development and use of speech, language, and hearing;
 - the physical bases and processes of the production and perception of speech, language, and hearing;
 - the linguistic variables related to normal development of speech, language, and hearing.

S A Phonological and Articulation Disorders

Definition, classification, etiology, diagnosis, and treatment of phonological/articulation disorders.

Prerequisite: SPPA 318.

S A Assistive Technology

Introduction to the development and use of assistive technology. Use of assistive technology for individuals in need of augmentative or alternative means of communication.

S A Anatomy of Speech Hearing Mechanism

Anatomy and physiology of auditory-vocal communicative process.

S A Bilingualism and Biculturalism I

Explores theories and issues of bilingualism and biculturalism, introducing the literature that gives insights into the experiences and achievements of minority college students and young adults.

Opportunities are given to examine students' own identify and competence when faced with another culture or language. Critique the efficacy of various bilingual/dual language education practices based on psycholinguistic models.

S A Adult Language Pathology

Impairment of language and speech related to organic neuropathology.

Prerequisite: SPPA 376.

S A Behavior Management Applications with Special Populations

Addresses the principles of behavior modification and discrete trials training as they apply to persons with Autism, developmental delays, congenital syndromes and attention deficit hyperactivity disorder.

S A Disorders of Fluency

Characteristics, theories of etiology, and principles of management of stuttering and other fluency disorders.

S A Voice Disorders

Definition, classification, etiology, diagnosis, and treatment of voice disorders. Pitch, intensity, quality, and resonance.

Prerequisite: SPPA 376.

S A Organic Speech Disorders

Introduction to the classification, cause, manifestations, assessment, and treatment of craniofacial disorders/cleft palate, tongue thrust, dysarthria, apraxia of speech, and dysphagia.

Prerequisite: SPPA 376.

S A Techniques for SL and Accent Modification

Principles and procedures for teaching English as a second language (ESL) and accent modification to bilingual speakers of English.

S A Hearing Problems and Basic Audiometry

Anatomy and physiology of the auditory mechanism. Nature of the acoustic stimulus, disorders of the ear, problems of the hard-of-hearing. Pure-tone audiometry. Applicable toward California audiometric certification.

S A Speech Language Pathology and Audiology Practicum

Supervised practice in diagnosis and therapy.

Prerequisite: SPPA 324, 334, 485, 486.

S A Bilingualism and Biculturalism II

Addresses the clinical competencies and cultural sensitivity needed in dealing with bicultural and bilingual clients. Discusses the impact of such knowledge on assessment and intervention.

S A Procedures and Materials in Speech Pathology

Principles and procedures of speech-language therapy within and across disorders. Methods of determining treatment effectiveness. Regulations governing public school services. Observation of speech therapists working in schools, hospitals, and private clinics.

S A Diagnostic Methods in Speech Language Pathology

Purpose for assessment. Procedures employed in describing and diagnosing speech-language impairments.

Prerequisite: SPPA 318, 324, 334.

S A Workshops in Speech Language Pathology and Audiology

3pa9a faring. Pure-tone audiom-

SC 2 Human neuropsychology
 Introduction to brain-behavior relationships, including cerebral asymmetry, disconnection syndromes, disorders of memory and language, biological substrates of affective behavior, motor and perceptual dysfunction, and drug actions.

MASTER OF SCIENCE

MS degree courses

The program leading to the Master of Science degree in speech-language pathology and its descriptions for the following courses are provided in the BULLETIN of the Graduate School.

SA 2 Early Childhood Language Disorders 1

SA 2 Preschool and School Age Children's Language Disorders 1

SA 2 Voice Disorders 1

SA 2 Swallowing Disorders 1

SA 2 Aural Rehabilitation and Hearing Aids 1

SA 2 Clinical Practice in Speech Language Pathology and Audiology Advanced 1

SA 2 Instrumentation in Speech and Hearing 1

SA 2 Professional Aspects of Speech Language Pathology and Audiology 1

SA 2 Counseling in Communication Disorders 1

SA 2 Directed Teaching in Speech Language Pathology 1

SA 2 Workshop in Speech Language Pathology, Audiology 1

SA 2 Internship in Speech Language Pathology 1

SA 2 Research Methods and Professional Literature 1

SA 2 Seminar, Motor Speech Disorders and Augmentation 1

SA 2 Seminar, Traumatic Brain Injury 1

SA 2 Seminar, Adult Language Disorders 1

SA 2 Seminar, Stuttering 1

SA 2 Seminar, Open Seminar 1

SA 2 Seminar, Articulation 1

SA 2 Research 1

SA 2 Thesis 1

SA 2 Directed Study 1

It takes special dedication and commitment to enter the field of speech-language pathology and audiology. Here are our full-time faculty that meet the criteria. . .

(l to r) Paige Shaughnessy, Jan McFarland, department chair-Kay Khoo, Jean Lowry, Susan Steffani, Karen Mainess, and department administrative secretary - Jeanne Stoddard

IV

ACUL O LI ION

Statement of Mission

Courses

Faculty of Religion

SA M MISSIONS

The Faculty of Religion is committed to the following four tasks as informed by the teachings and practice of the Seventh-day Adventist heritage and mission:

1. To promote Christian wholeness for faculty and students in their personal and professional lives and witness.
2. To provide a religion curriculum with the following emphases:
 - Foundational Studies (biblical, theological, historical, and mission).
 - Ethical Studies (personal, professional, and social).
 - Relational Studies (applied theology, clinical ministry, and psychology of religion).
3. To foster and support research in the foundational, ethical, and relational disciplines.
4. To serve the University, the church, and the larger world community by personal involvement in fostering deeper spirituality, theological integrity, and social justice.

C S S

A I A L S I S

BIBLICAL STUDI

L e Testament writings
 Interpretation of selected letters and passages of the New Testament, with a view to their theological and practical significance for today.

Additional project required for third unit.

L ospel of John
 Key passages and themes in John, with an exploration of its message for today.

Additional project required for third unit.

L iblical prophets
 Selected books, passages, and themes in the Old Testament prophets, with an exploration of their theological and practical significance for today.

Additional project required for third unit.

L esus
 Study of Jesus as healer and teacher, prophet and reformer, Son of God and Savior.

Additional project required for third unit.

L ospel of Mark
 Key passages and themes in Mark, with an exploration of its message for today.

Additional project required for third unit.

L ospel of Luke
 Key passages and themes in Luke, with an exploration of its message for today.

Additional project required for third unit.

L ospel of Matthew
 Key passages and themes in Matthew, with an exploration of its message for today.

Additional project required for third unit.

L aul's Message in Romans
 Chapter-by-chapter interpretation of Paul's most influential letter, in which the good news of God's salvation is applied to the issues of Christian life and community.

Additional project required for third unit.

L aniel
 Nature, purpose, and message of the apocalyptic book of Daniel.

Additional project required for third unit.

L evelation
 Nature, purpose, and message of the apocalyptic book of Revelation.

Additional project required for third unit.

L ove and Sex in the Bible
 Study of Scripture on the reality, nature, and challenges of love, both divine and human; and of key biblical passages on the goodness, meaning, and distortions of human sexuality.

Additional project required for third unit.

MISSION STUDIES

- REL 301 Christian Mission**
 Biblical theology applied to defining the concerns, structures, and methods of Christian mission. Concept of the Church, the definition of missionary, and the priorities of mission.
 Additional project required for third unit.
- REL 302 Cross Cultural Ministry**
 Study of the challenges of serving cross-cultural situations from a Christian mission perspective, using the insights of missiology and cultural anthropology as they relate to personal and professional growth, social change, and effective intercultural communication and service.
 Additional project required for third unit.
- REL 303 Anthropology of Mission**
 Study of Christian mission, applying the findings of anthropology as they relate to cultural change. Processes of religious development, means of diffusion, factors affecting religious acculturation, and analysis of programs intended to effect changes in religion.
 Additional project required for fourth unit.
- REL 304 HISTORICAL SEXUALITY**

 - REL 304.1 Christian Understanding of Sexuality**
 Interpretations of human sexuality in ancient, medieval, and modern Christian thought, with emphasis on contemporary issues such as marriage, divorce, homosexuality, and artificial human procreation.
 Additional project required for third unit.
 - REL 304.2 Personal and Professional Ethics**
 The foundations, norms, and patterns of personal integrity and professional responsibility.
 Additional project required for third unit.
 - REL 304.3 Christian Ethics and Health Care**
 Ethical issues in modern medicine and related fields from the perspective of Christian thought and practice.
 Additional project required for third unit.
 - REL 304.4 Directed Study**
 Prerequisite: Consent of the instructor.
 - REL 304.5 Clinical Ethics**
 Case-based analysis of bioethics, with emphasis on clinical applications. Conceptual and historical readings in bioethics.
 Additional project required for fourth unit.
 - REL 304.6 Bioethical Issues in Social Work**
 Theoretical and practical dilemmas in bioethics. Contributions of social workers to these issues.
 Additional project required for fourth unit.
 - REL 304.7 Christian Bioethics**
 Christian perspectives on ethical issues in health care.
 Additional project required for fourth unit.

- REL 305 Ethics for Scientists**
 Ethical aspects of scientific research, with emphasis on Christian contributions.
 Additional project required for fourth unit.
- REL 306 Ethical Issues in Public Health**
 Ethical issues encountered by public health administrators, educators, and investigators.
 Additional project required for fourth unit.
- REL 307 Christian Business Ethics**
 Christian and other perspectives on ethical issues in business and their pertinence to health care delivery and administration.
 Additional project required for fourth unit.
- REL 308 Christian Social Ethics**
 Relationships between Christian beliefs and social theory and practice.
 Additional project required for fourth unit.
- REL 309 Clinical Ethics Practicum I**
 Theories and applications of ethics in the clinical setting.
- REL 310 Clinical Ethics Practicum II**
 Theories and applications of ethics in the clinical setting.
 Prerequisite: RELE 554.
- REL 311 Theological Ethics**
 Ethical implications of the primary theological legacies of Western culture.
 Additional project required for fourth unit.
- REL 312 Philosophical Ethics**
 Ethical themes and significant theorists in Western philosophy.
 Additional project required for fourth unit.
- REL 313 Biblical Ethics**
 Exploration of the nature of biblical ethics and the contribution which the Bible makes to ethical reflection and action.
 Additional project required for fourth unit.
- REL 314 Seminar in Christian Ethics**
 Advanced study of selected topics in Christian ethics.
 Prerequisite: Consent of the instructor.
- REL 315 Directed Study**
 Prerequisite: Consent of the instructor.

LA IALS STUDIES

APPLIED THEOLOGICAL STUDIES

L Church and Community Leadership

1

L Culture, psychology and religion
Introduction to the major contours of Western culture as they relate to various schools of psychological thought and the influence of religious beliefs.

Additional project required for fourth unit.

L Psychology of religion
Psychological research of religion from an eclectic approach. Faith development, ethnographic varieties of religious experiences, narrative analysis, and cross-cultural religious experiences.

Additional project required for fourth unit.

L Psychology of Moral and Faith Development
Study of logical, moral, and faith reasoning from a cognitive-developmental perspective. How cultural and religious norms affect moral thinking.

Additional project required for fourth unit.

L Directed Study
Prerequisite: Consent of the instructor.

AL L I S S I S

L Research Methods
Study of presuppositions and procedures for scholarship in religion and ethics, with an introduction to research in the natural and behavioral sciences. Practical themes include writing, library and Internet resources, and forms of scholarly papers and articles.

Two units of credit may be given for research methods class taken in another discipline.

Additional project required for fourth unit.

L Reading tutorial
Reading course for graduate students in religious studies. Topics vary depending on student and instructor interests.

Additional project required for fourth unit.

Prerequisite: Consent of the instructor.

L Clinical Internship 2000 hours
Supervised clinical internship. Minimum of one hour of individual supervision per week, and a final evaluation from the supervisor at the completion of 400 hours of clinical internship.

L Project
Prerequisite: Consent of the instructor and of student's adviser.

L Independent research
Prerequisite: Consent of the instructor and of student's adviser.

L Thesis
Prerequisite: Consent of the instructor and of student's adviser.

V

DIVISION OF GENERAL EDUCATION

LLU Philosophy of General Education

LLU Criteria for General Education Courses

LLU General Education Requirements

LLU General Education Courses Offered by the School

LLU General Education Courses—Online and Booklet

L O M A L I N D A U N I V E R S I T Y L O M A L I N D A U N I V E R S I T Y

As a Seventh-day Adventist health-sciences institution, Loma Linda University seeks to exemplify a life of service and sensitivity beyond the requirements of academic excellence within a professional discipline. With its rich spiritual heritage, the University places special emphasis on educating its students for a life of service in a global community.

General education at Loma Linda University consists of courses, lectures, programs and activities coordinated with the intent to integrate faith and learning. In addition to the basics of cultural heritage and diversity, scientific inquiry and analysis, communication, and wellness, the curriculum emphasizes the University's spiritual heritage as well as moral and ethical decision-making that is grounded in Christian principles.

Thus, a general education is considered to be the cornerstone upon which students begin cultivating their abilities to:

1. Understand the fundamental Christian prin-

AHC 301 Statistics for the Health Professions

Fundamental procedures in collecting, summarizing, analyzing, presenting, and interpreting data. Measures of central tendency and variation, probability, binomial and normal distribution, hypothesis testing and confidence intervals, t-tests, chi-square, correlation, and regression. Introduction to SPSS statistical package for computer data analysis.

Prerequisite: Competency math exam at 75%.

AHC 302 Pathology I

Fundamental mechanisms of disease, including cell injury; inflammation, repair, regeneration, and fibrosis; vascular, cardiac, respiratory, gastrointestinal, hepatobiliary, urinary, reproductive, endocrine, and integumentary pathologies.

AHC 303 Pathology II

3 units: Fundamental mechanisms of disease, including the central and peripheral nervous systems, bone and joint, skeletal muscle, developmental, genetic, infectious, and parasitic pathologies; and neoplasia.

4 units: Additional unit requires two autopsy viewings and written report.

Prerequisite: AHCJ 402.

AHC 304 Physiology I

Physiology of the human body, including cellular, neuromuscular, cardiovascular, respiratory, gastrointestinal, renal, and endocrine physiology.

AHC 305 Physiology II

Detailed study of neuromuscular physiology.

Prerequisite: AHCJ 418.

AHC 306 Research Methods

Introduction to the scientific method in research. Focus on the major steps of the research process as these steps relate to research report evaluation, proposal writing, literature review, development of conceptual framework, identification of variables, statement of hypotheses, research design, and analysis and presentation of data.

Prerequisite: AHCJ 351.

SA 301 Hearing Science

Introduction to basic theories and laboratory exercises in acoustics, psychoacoustics, and physiological acoustics.

SA 302 Anatomy of Speech and Hearing Mechanism

Anatomy and physiology of auditory-vocal communicative process.

SOCIAL SCIENCES

AHC 307 HIV/AIDS and the Health Worker

Current issues on HIV/AIDS, with special emphasis on the epidemiology and etiology of the disease. Psychosocial, economic, ethical, and legal concerns. Education for prevention and impact on the health care worker. Resources available. Risk factors and precautions for blood-borne pathogens, HIV, hepatitis, and tuberculosis.

AHC 308 Psycho Social Models and Interactions

Orientation to the major models in psychology and how they relate to medical care. Development of a psychological model for interpretation of needs of the person in crisis. Understanding the roles of psychiatrists, psychologists, social workers, and family therapists. Suicide intervention. Critical-incident debriefing. Support factors in providing temporary, adequate psychological care for all involved in medical crisis.

AHC 309 Portfolio Practicum I

Introduction to the goals for a graduate of Loma Linda University. Students demonstrate progression towards effective communication, teamwork, support of diversity, ethical behavior, appreciation of human worth, balanced work-rest-leisure within a spiritual atmosphere, and commitment to long-term personal and professional growth.

AHC 310 Financial Management

Financial aspects of health care involving prospective reimbursement system, analysis of various health-care reimbursement schemes, and hospital financial disbursements. Budget variance analysis, analysis of cost components, operating statements, and productivity related to a department budget. Special projects may be assigned as needed.

AHC 311 Health Care Management

Management theory: planning, organizing, directing, and controlling (including budgetary controls). Department productivity and theories of work simplification. Preparation of resumes, interviewing skills, professional attitudes, group theory, and group dynamics. Students spend the last two to three weeks doing special projects designed and supervised by their departments. (Department of Nutrition and Dietetics students register for a 2-unit practicum in conjunction with this course.)

AHC 312 Educational Psychology for Health Professionals

Psychological factors relating to learning processes in professional and higher education. Emphasis on the role of communication skills in learning settings, gender influences on learning, objective setting and course design, stimulating higher-level thinking, motivation, and retention.

Prerequisite: AHCJ 409.

AHC 313 Psychology of Physical Disability

Psychological reactions to illness or disability. Methods of dealing with these reactions considered with reference to the clinical situation. Seminar approach to professional responsibilities for health care.

AHC 314 Portfolio Practicum II

Continued progress towards the goals for a Loma Linda University graduate.

1 unit: Development of portfolio that illustrates the potential graduate's ability to meet the goals set by SAHP for graduates of baccalaureate and master's degree programs.

2 units: Requires a research abstract. Course covers three quarters (AU, WN, SP). IP grade will carry through each quarter until completion of third quarter, at which time grade is issued.

SA 222 Bilingualism and Biculturalism
 Explores the theories and issues of bilingualism and biculturalism, introducing literature that gives insights into the experiences and achievements of minority college students and young adults. Opportunities are given to examine students' own identity and competence when faced with another culture or language. Critique the efficacy of various bilingual/dual language education practices based on psycholinguistic models.

MAI 100 COMMUNICATIONS I
 3 quarter credits

AHC 100 Professional Communications
 Forms of written and verbal communication routinely required in the performance of the health care manager's duties. Projects include memos, letters, confidential FAX cover design, short reports, meeting notices, minutes, and creation of an agenda.

AHC 101 Medical Terminology
 Language of medicine, including word construction, definitions, and the use of terms related to medical science. Course organized by body systems.

AHC 102 Human Resources Management
 Theory and practice of the management of people at work. Organizational behavior concepts and the problems of employee procurement, training, and motivation. Job evaluation, wage administration, employee benefits, and negotiating with labor unions. Preparation both for managing people a

AHC 103 Dynamics of Learning and Teaching
 Examination of the theories of learning applied to teaching process. Includes evaluation of current research and methods of instruction.

AHC 104 Adult Learning Styles
 Theories and styles of learning, personality factors relating to learning, implications of effective intellectual, emotional, and social functioning included within the context of structuring education for the adult learner. Analysis of the teaching process from setting of objectives, selection of content, and design of classroom and clinical teaching strategies, with emphasis on alternatives to lecturing.

AHC 105 Introduction to Computer Applications
 Hands-on instruction in Word, Excel, and PowerPoint. Lectures, laboratory, assignments, quizzes, projects, and a practical examination.

AHC 106 Database Management I
 Introduction to database management concepts, with emphasis on medical information. Microsoft Excel used as a flat database. Data management and presentation using the sorting, reporting, and charting functions of Excel.

Prerequisite: Introduction to computers.

AHC 107 Database Management II
 Theories and steps of database development using Microsoft Access. Topics include but are not limited to relationships, form building, advanced queries, reporting, and macros. Required project creating a basic medical-information database from scratch.

Prerequisite: AHCJ 431 or consent of instructor.

AHC 108 Special Projects in Computer Applications

Computer systems and applications designed to the specific professional needs and interests of the student. Emphasizes use of databases with health care data and on-systems design, as needed.

Prerequisite: AHCJ 431, 432.

AHC 109 Group Process and Dynamics
 Introduction to principles and techniques of group theories, processes, and dynamics, as applied to the health professional setting. Concepts include group functions, roles, structures, and characteristics; group membership, norms, dynamics, and relations. Theoretical perspectives on group development, dynamics, and conflicts. Practical issues, including educational applications, negotiation, observation, and diagnosis. Leadership issues, facilitation, expedition, and termination. Simulation exercises, active learning, and flexible choices of study and application.

AHC 110 Seminars in Leadership
 Seminar in contemporary leadership topics designed to prepare graduates for entry into the new work requirements. Through observation and participation, students explore the responsibility of the employee of today for successful integration into customer and community service and social responsibility.

SA 223 Beginning Sign Language
 Focus on learning American Sign Language (ASL) for conversational purposes. Students learn finger-spelling, acquire a sign vocabulary of approximately 500 words, and explain and demonstrate the basic grammatical rules of ASL. Opportunity provided to use ASL with native signers. Students discuss ASL in contrast to the various sign systems currently being used in educational settings in this country.

MAI 101 HEALTH AND WELLNESS
 3 quarter credits

CS 101 Human Nutrition
 Fundamentals of normal nutrition! Carbohydrates, proteins, fats, vitamins, minerals; their roles in human metabolism. Introduction to nutrition in the life cycle. Per week: lecture 3 hours.

CS 102 Human and Clinical Nutrition for Nursing
 Fundamentals of normal nutrition. Carbohydrates, proteins, fats, vitamins, minerals; their roles in human metabolism. Investigating the role of nutrition at various levels of nutrition. Car

L O M A L I N D A U N I V E R S I T Y
L O M A L I N D A U N I V E R S I T Y

A complete listing of courses offered each academic term at this University to meet general education domain requirements is included on the Loma Linda University Web Site at <www.llu.edu/ssweb/> under the course schedules.

By linking from course schedules to “General Education Brochure and Course Descriptions” the student has access also to the entire list of general education courses and course descriptions. It is available at the above web site as a printable booklet—*Loma Linda University General Education Philosophy, Requirements, and Courses*.

VI

I

DI C O

Officers of the Board of Trustees

Board of Trustees

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To Communicate with LLU Personnel

by Mail, Telephone, FAX, Web Site, and Email

INSTITUTIONAL AFFAIRS

MEMBERS

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B. Lyn Behrens, M.B., B.S.	Vice Chair
Don C. Schneider, M.A.	Vice Chair
Brian Bull, M.D.	Secretary

SCH L A MI IS A I

A MI IS A I

Craig R. Jackson, J.D., M.S.W., Dean
 Edd J. Ashley, Ed.D., Associate Dean, Student Affairs
 Grenith J. Zimmerman, Ph.D., Associate Dean, Research, Program Director for Rehabilitation Science
 Kent Chow, M.B.A., Assistant Dean, Finance
 G. Charles Dart, Jr., M.B.A., Director, Marketing and Retention
 Helen Greenwood, M.A., Director, Admissions and Records
 _____, Director, Development
 Ardis Wazdatskey, M.A., Director, Evaluation

C M S IC S

Intithar S. Elias, M.S., Director
 Brandon A. Spurgeon, A.S.
 Rajae Aree

S A CH A S A IS ICS

Grenith J. Zimmerman, Ph.D., Associate Dean
 Noha S. Daher, M.S.P.H.
 Leda de Dios, B.S.
 Ardis Wazdatskey, M.A.

CA LM A SCI C S

Robert L. Wilkins, Ph.D., Department Chair
 Jeff T. Grange, M.D., Medical Director for Bachelor of Science, Emergency Medical Care Program
 Ehren B. Ngo, M.S. Program Director for Bachelor of Science, Emergency Medical Care;
 Director, Center for Emergency Medical Services Education and Research (CEMSER)
 Traci L. Marin, B.S, Director of Clinical Education for Bachelor of Science, Emergency Medical Care
 Program
 Kenrick C. Bourne, Dr.P.H., Program Director for Master of Physician Assistant, Physician Assistant Program
 Benny Hau, M.D., Medical Director for Master of Physician Assistant, Physician Assistant Program
 Julie Y. Lee, MPH, Assistant Didactic Coordinator for Master of Physician Assistant, Physician Assistant Program
 Allan Bedashi, M.S., Didactic Coordinator for Master of Physician Assistant, Physician Assistant Program
 Gerald A. Glavaz, M.P.A.S., Clinical Coordinator of Clinical Education for Master of Physician Assistant,
 Physician Assistant Program
 Yasmin C. Bracho, M.P.A., Assistant Clinical Coordinator for Master of Physician Assistant, Physician Assistant
 Program
 N. Lennard Specht, M.D., Medical Director for Respiratory Care Program
 David Lopez, Ed.D., Program Director for Post-Professional Bachelor of Science, Respiratory Care;
 and for Certificate, Polysomnography
 David M. Stanton, M.S., Program Director for Certificate, Respiratory Care; and for
 Bachelor of Science, Respiratory Care
 Arthur B. Marshak, B.S., Director of Clinical Education for Bachelor of Science, Respiratory Care Program

CL I CAL LA A SCI C

Kenneth A. Cantos, M.D., Department Chair
 Monique K. Gilbert, B.S., Program Director for Certificate, Phlebotomy
 Marlene M. Ota, B.S., Program Director for Certificate and for Bachelor of Science, Cytotechnology
 Darryl G. Heustis, M.D., Medical Director for Cytotechnology Program
 Pamela J. Wat, M.D., Medical Co-director for Cytotechnology Program
 Sally S. Greenbeck, M.P.H., Program Director for Bachelor of Science, Clinical Laboratory Science
 Katherine G. Davis, B.S., Clinical Coordinator for Clinical Laboratory Science Program
 James M. Pappas, M.D., Medical Director for Clinical Laboratory Science Program

H AL HI MA I MA A M

Marilyn H. Davidian, M.A., Department Chair; Program Director for Health Information Systems and for
 Health Information Administration
 Diana Medal, M.A., Program Coordinator for Certificate, Coding Specialist
 Terri Rouse, B.S., Recruitment Coordinator, Health Information Administration Program
 _____, Coordinator for Clinical Education

INTERNATIONAL STUDIES

Bert C. Connell, Ph.D., Department Chair and Program Director; Bachelor of Science, Nutrition and Dietetics; Certificate, Dietetics
 Kenneth I. Burke, Ph.D., Emeritus Professor
 Georgia W. Hodgkin, Ed.D., Associate Department Chair, Program Director; Dietetic Technology
 Maxine Taylor, M.S., Academic Coordinator of Clinical Education; Nutrition and Dietetics Program
 Cindy Kosch, M.S., RD, Assistant Professor, Nutrition and Dietetics; Certificate Coordinator

CAREER AND OCCUPATIONAL THERAPY

Liane H. Hewitt, M.P.H., OTR/L, Department Chair, Program Director for Associate in Arts, Occupational Therapy Assistant; and Program Director for Post-Professional Master of Occupational Therapy
 Esther Huecker, M.A., OTR/L, BCP, Program Director, Entry-Level Master of Occupational Therapy
 Judith A. Palladino, M.A., OTR/L, Academic Coordinator for Fieldwork Education, Occupational Therapy Program
 Sharon Pavlovich, A.A., COTA/L, Academic Coordinator for Fieldwork Education, Occupational Therapy Assistant Program

PHYSICAL THERAPY

Edd J. Ashley, Ed.D., Department Chair
 Howard W. Sulzle, Ed.D., Associate Department Chair
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 Everett B. Lohman III, D.P.T.Sc., Program Director for Post-Professional Master of Physical Therapy; Post-Professional Doctor of Physical Therapy; and Post Professional Doctor of Physical Therapy Science
 Jeannine Stuart-Mendes, M.P.T., Academic Coordinator of Clinical Education for Entry-Level Doctor of Physical Therapy Program
 Desmyrna R. Taylor, M.P.T., Program Director for Associate in Science, Physical Therapist Assistant
 Carol J. Appleton, M.P.H., Academic Coordinator of Clinical Education for Progression Master of Physical Therapy Program and Physical Therapist Assistant Programs; Assistant Program Director for Physical Therapist Assistant

ANATOMY AND PHYSIOLOGY

Arthur W. Kroetz, Ph.D., Department Chair
 Erma P. Ezpelata, B.S., Program Director for Certificate, Nuclear Medicine Technology
 Mark J. Clements, M.A., Associate Department Chair; Program Director for Associate in Science, Medical Radiography; Program Director for Bachelor of Science, Radiation Therapy Technology; Coordinator for Certificate, Diagnostic Medical Sonography Program
 Laura L. Alipoon, Ed.S., Program Director for Bachelor of Science, Radiation Sciences; Program Director, Radiologist Assistant
 Steven L. Leber, B.S., Clinical Coordinator for Associate in Science, Medical Radiography Program; Program Director for Certificate, Special Imaging Technology
 Marie M. DeLange, B.S., Clinical Program Director for Certificate, Diagnostic Medical Sonography
 Carol A. Davis, M.A., Clinical Program Director for Certificate, Radiation Therapy Technology; Program Director, Medical Dosimetry
 Gregory E. Watkins, M.D., Medical Adviser for Medical Radiography Program
 Glenn A. Rouse, M.D., Medical Director for Certificate, Diagnostic Medical Sonography Program
 _____, Medical Director for Certificate, Nuclear Medicine Technology Program
 James M. Slater, M.D., Medical Director for Radiation Therapy Technology Program
 Terese R. Pfeiffer, B.S., Program Coordinator, Loma Linda University Programs, Fresno, CA

RECREATION THERAPY AND LEISURE SERVICES

Keiko Khoo, M.A., M.S., Department Chair
 Jean B. Lowry, Program Director for Master of Science, for Bachelor of Science; Program Director Certificate, Speech Language Pathology and Audiology
 Paige Shaughnessy, Academic Coordinator for Clinical Education, Speech-Language Pathology and Audiology Program
 Karen Mainess, Ph.D., Program Director for Associate in Science, Speech-Language Pathology Assistant

SCHOOL OF ALLIED HEALTH PROFESSIONS

ADMINISTRATIVE

Craig Jackson, Chair	Helen Greenwood	Faculty Council chair
Kent Chow	Grenith Zimmerman	Chancellor*
Charles Dart	Department chairs	

ADMINISTRATIVE

Edd Ashley, Chair	Craig Jackson	Chancellor*
Charles Dart	Dean, Student Affairs*	Special assistant to the chancellor
Helen Greenwood	Department chairs	(diversity)*

COMMUNITY SERVICES

Ken Cantos, Chair	John Lewis	Terence Tay
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CLINICAL INSTRUCTORS

Judith Palladino, Chair	Gerald Glavaz	Sharon Pavlovich
Carol Appleton	Craig Jackson	Paige Shaughnessy
Yasmin Bracho	Yoomi Kim	Howard Sulzle
Kelly Burk	Dolly Kisinger	Maxine Taylor
Katherine Davis	Steve Leber	
Intithar Elias	Traci Marin	
Erma Ezpeleta	Arthur Marshak	
Monique Gilbert	Jeannine Stuart Mendes	

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Marilyn Davidian	Georgia Hodgkin	Desmyrna Taylor
Intithar Elias		

LI A A CH L C MMI

Cindy Kosch, Chair
Marilyn Davidian
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AM L C S C CIL

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Ruel Alipoon	Monique Gilbert	Karen Mainess
Kenrick Bourne	Sally Greenbeck	Diana Medal
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Mark Clements	Georgia Hodgkin	Marlene Ota
Charles Dart	Esther Huecker	David Stanton
Marilyn Davidian	Steven Leber	Desmyrna Taylor
Carol Davis	Everett Lohman	Ardis Wazdatskey

A A M I C MMI

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Edd Ashley	Paige Shaughnessy	
Bertrum Connell	Cheryl Simpson	

S A CH C MMI

Grenith Zimmerman, Chair	Esther Huecker	Student representative
Edd Ashley	Craig Jackson*	University advancement grant
Kenneth Burke	Kelly Liu	writer/researcher
Mark Clements	Jerrold Petrofsky	
Marilyn Davidian	Susan Steffani	
Nicceta Davis	Robert Wilkins	

S I C AS C MMI

Bert Connell, Chair	Arthur Marshak	Mark Clements (alternate)
	Desmyrna Taylor	Karen Pendleton (alternate)

S I I AL LI A H L SS C MMI

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Laura Alipoon	Arthur Marshak	Ivan Blazen (Faculty of Religion)
Christy Billock	Terri Rouse	David Taylor (Faculty of Religion)
Kenneth Burke	Jeannine Stuart-Mendes	
Craig Jackson*	Antonio Valenzuela	office

CH L M LA LA I C MMI

Arthur Kroetz, Chair	Intithar Elias	Brandon Spurgeon
Cerise Bender	Arthur Marshak	Ardis Wazdatskey
Kenneth Burke	Diana Medal	Grenith Zimmerman
Kent Chow	Ernie Schwab	
Noha Daher		

H AC L

ull time aculty

- LAURA L. ALIPOON, Associate Professor, Department of Radiation Technology
Ed.D. La Sierra University 2001
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A.S. East Los Angeles College 1976
- CAROL J. APPLETON, Assistant Professor, Department of Physical Therapy
M.P.H. Loma Linda University PH 1974
- EDD JAN ASHLEY, Professor, Department of Physical Therapy
Ed.D. Boston University 1972
- ALLAN M. BEDASHI, Assistant Professor, Department of Cardiopulmonary Sciences
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Adventist Health System, Feather River Hospital,
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Adventist Health System, Florida Hospital Waterman,
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Adventist Health System, Loma Linda University
Behavioral Health Center, Loma Linda
Adventist Health System, Loma Linda University
Medical Center, Loma Linda
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 Department of the Army Community Hospital, Fort Benning, GA
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 Desert Knolls Convalescent, Premier Healthcare, Inc., Victorville
 Desert Life Rehabilitation and Care Center, Tucson, AZ
 Desert Medical Group, Inc., Palm Springs
 Desert Regional Medical Center (Tenet Health System), Palm Springs
 Desert Sands Unified School District, La Quinta
 Desert Springs Therapy Center, Desert Hot Springs
 Desert Valley Hospital, Victorville
 DeSoto Memorial Hospital, Arcadia
 Detroit Medical Center, Detroit, MI
 Developing Aging Solutions with Heart, dba DASH, Redlands
 Developmental Pathway for Kids, Detroit, MI
 Devonshire Care Center/Locomotion Therapy, Hemet
 Dewitt Physical Therapy, Merced
 Diamondback Physical Therapy, Gilbert, AZ
 Dimensions in Food and Nutrition, Inc., Burtonsville, MD
 Doctors Hospital Medical Center, Montclair
 Doctors Hospital of Sarasota, Sarasota, FL
 Dolphin Human Therapy, Miami, FL
 Dominican Hospital, Santa Cruz
 Dos Caminos Physical Therapy and Sports Rehab, Camarillo
 Downey Regional Medical Center, Downey
 Downey Unified School District, Downey
 Drayer Physical Therapy Institute, Hummelstow, PA
 Dr. McDougall's Right Foods/*Veggie Life Magazine*, Concorde
 Drs. Hayashi, Sakai, and Dahms, Thousand Oaks
 Durango Sports Club PT, Durango, CO
 Dynamic Performances Therpay, Huntsville, AL
 Dynamics Spinal Cord Rehab Center, Los Angeles
 East Jefferson General Hospital, Metairie, LA
 East Pasco Medical Center, Zephyrillis, FL
 East Valley, SELPA, Colton
 Easter Seal Children's Guild Therapy Center, Salem, OR
 Easter Seal Society, Sacramento
 Easter Seal Society of Inland Counties, San Bernardino
 Easter Seals—Central California, Fresno
 Eclipse Therapies, Inc., San Rafael
 Ed Ayub Ortho and Sports, San Diego
 Egleston's Children's Hospital at Emory University, Inc., Atlanta, GA
 Eisenhower Memorial Hospital, Rancho Mirage
 El Centro Regional Medical Center, El Centro
 El Paso Physical Therapy Services, El Paso, TX
 Elite Performance, Newport Beach
 Elkin's Park Hospital (Tenet Health System) Elkin's Park, PA
 Elks Rehabilitation Hospital, Boise, ID
 Elmhurst Memorial Hospital, Elmhurst, IL
 Ember Healthcare, Pomona
 Emerald Bay Physical Therapy, South Lake Tahoe
 Emilie Gamelin Institute, Portland, OR
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 Enloe Medical Center, Chico
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 Eureka Physical Therapy, Inc., Eureka
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 Evergreen Hospital Medical Center, Kirkland, WA
 Excel Physical Therapy, Walla Walla, WA
 Explorabilities, Albuquerque, NM
 Fairbanks Memorial Hospital, Fairbanks, AK
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 Fallbrook Physical & Occupational Therapy, Fallbrook
 Fayetteville Therapy Services, Fayetteville, NC
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 First Healthcare Corporation, Tacoma, WA
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 Flagstaff Medical Center and Northern Arizona Rehab Center, Flagstaff, AZ
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 Fox Occupational Medicine Center, San Bernardino
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 Friends of Jefferson House, Riverside
 Function Junction Rehabilitation Center, Crescent City
 Future Rehabilitation, Santa Rosa
 Futures Rehab and Heritage Healthcare, St. Helena
 Fysiocur NV, Curacao, Netherlands
 Galen of Kansas, Overland Park, KS
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 Gateway Therapy Center, Poway
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 Gila Regional Medical Center PT Department, Silver City, NM
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- Glendale Unified School District, Glendale
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- Graciela Esquivel-Aguilar, MD, Fresno
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- Greater Victoria Hospital Society, Victoria, British
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- Green Hospital of Scripps, La Jolla
- Gresham Sports Care PT, Gresham, OR
- Guam Memorial Hospital, Tamuning, Guam
- Guam SDA Wellness Center, Tamuning, Guam
- Guardian Healthcare Group, Modesto
- Guardian Rehabilitation Hospital, Modesto
- H & W Therapy, Pueblo, CO
- H & W Therapy, Soldotna, AK
- Hairston and Daley Physical Therapy, Orange
- Hale Makua, Kahului, HI
- Hallmark Rehabilitation, Foothill Ranch
- Hamilton Physical Therapy, Hamilton, MT
- Hand Rehabilitation Clinic, Beverly Hills
- Hands on Hands Rehabilitation Center, Costa Mesa
- Hanford Community Hospital, Hanford
- Harbor View Medical Center, Seattle, WA
- Hardee PT/Rehab Service, Inc., Wauchula, FL
- Hawaii State Hospital, Kaneohe, Oahu, HI
- Hawaiian Electric Company, Honolulu, HI
- Hawaiian Rehabilitation Services, Kailua-Kona, HI
- HCA Healthcare—Good Samaritan, San Jose
- Health Pro Physical Therapy, Walnut Creek
- Health Services Agency, Modesto
- Health South Corporation, Birmingham, AL
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- Health South Rehabilitation, Willowbrook, IL
- Health South Western Rehabilitation Institute,
Sandy, UT
- HealthAlliance Hospital, Leominster, MA
- Healthcare Partners Medical Group, Torrance
- HealthSouth Community Re-Entry Center of South
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- HealthSouth Community Re-Entry Center of Texas,
Dallas, TX
- HealthSouth Comprehensive Rehabilitation Unit,
Birmingham, AL
- HealthSouth Corporation—multiple sites
- HealthSouth Dallas Rehabilitation Institute, Dallas, TX
- HealthSouth Doctor's Hospital, Coral Gables, FL
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St. Louis, MO
- HealthSouth Rehabilitation Center of Tucson,
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- HealthSouth Rehabilitation Corporation, dba Sea Pines,
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- HealthSouth Sunrise Rehabilitation Hospital,
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- Holy Rosary Medical Center, Ontario, OR
- Horizon Physical Therapy, Redlands
- Hospitale Maternidade de Jundiai, San Paulo, Brazil
- Houston Rehabilitation Institution, Houston, TX
- Howard Memorial Hospital, Willits
- Hudson and Walker PT, Apple Valley
- Huguley Memorial Medical Center, Ft. Worth, TX
- Huntington Beach Hospital & Medical Center,
Huntington Beach
- Huntington Drive Skilled Nursing Center, Arcadia
- Huntington East Valley Hospital, Glendora
- Huntington Memorial Hospital, Pasadena
- Huntsville Pool and Land Therapy, Huntsville, AL
- Hurley Medical Center, Flint, MI
- Hy-Lond Convalescent, Modesto
- Idaho Physical Therapy, Nampa, ID
- IHC Health Services/Primary Children's Medical Center,
Salt Lake City, UT
- IHC Rehab Services of St. George, St. George, UT
- Immanuel Medical Center, Omaha, NE
- Imperial Valley Therapy Centers, El Centro
- In Balance, A Woman's Health & Wellness, San Juan
- Independent PT—Torrance, Torrance
- Inglish & Petersen PT, Mesa, AZ
- Inland Empire Physical Therapy, Corona
- Inland Hand Therapy, Rancho Cucamonga
- Inland Mental Health Associates, Inc., Chino
- Inland Surgery Center, Redlands
- Inland Temporary Homes, Loma Linda
- Inland Valley Regional Medical Center, Wildomar
- Innovative Health Systems, Inc., Sacramento
- Integrus Baptist Medical Center, Oklahoma City, OK
- Intergro Rehab Services, Huntington Beach
- Interlink Rehabilitation, Van Nuys
- Intermountain Health Care, Orem, UT
- Island Physical Therapy Center, Anacortes, WA
- Jack D. Close & Associates, Las Vegas, NV
- Jayne Shover Easter Seal Rehabilitation Center, Elgin, IL

- Jean Hanna Clark Rehabilitation Center, Las Vegas, NV
 Jefferson County Health Department, Louisville, KY
 Jefferson County Public Schools, Golden, CO
 Jennie Edmundson Hospital, Council Bluffs, IA
 J. F. Kennedy Memorial Hospital (Tenet Health System),
 Indio
 Jim Thorp Rehabilitation, Oklahoma City, OK
 John Breuer Rehab Services, Coos Bay, OR
 Johns Hopkins Hospital, Baltimore, MD
 Joyner Sports Medicine Institute, Division of Novacare,
 Harrisburg, PA
 JP Therapy and Magnolia Rehabilitation and Nursing,
 Riverside
 JP Therapy Villa Rehab Hospital, Riverside
 Jump Start, Colton
 June Weinstein and Associates, Villa Park
 Jurupa Unified School District, Riverside
- Kadlec Medical Center, Richland, WA
 Kaiser Foundation Hospital–Baldwin Park, Baldwin Park
 Kaiser Foundation Hospital–Bellflower, Bellflower
 Kaiser Foundation Hospital–Fontana, Fontana
 Kaiser Foundation Hospital–Los Angeles, Los Angeles
 Kaiser Foundation Hospital–Panorama City
 Kaiser Foundation Hospital–Riverside, Riverside
 Kaiser Foundation Hospital–San Diego, San Diego
 Kaiser Foundation Hospital–Woodland Hills
 Kaiser Foundation Hospitals, Honolulu, HI
 Kaiser Permanente Hospitals and the Permanente
 Medical Group, Oakland
 Kaiser Permanente, Fresno Medical Center, Fresno
 Kaiser Permanente Medical Group–North
 Kaiser Permanente–Southern California Region,
 Pasadena
 Kansas Rehabilitation Hospital, Topeka, KS
 Kaweah Delta Healthcare District, Visalia
 Kennebec Valley Medical Center, Augusta, ME
 Kennewick General Hospital, Kennewick, WA
 Kensington Physical Therapy, Inc., Gaithersburg, MD
 Kentfield Rehabilitation Hospital, Kentfield
 Kern Radiology, Bakersfield
 Kern Valley Health District, Mt. Mesa
 Kettering Medical Center, Kettering, OH
 Keystone Vocational Services, San Francisco
 Kimbro Medical Center, Cleburne, TX
 Kindred Hospital, Vencor, Ontario
 Kindred Hospital, Rehabilitation, Brea
 Kingman Community Hospital, Kingman, KS
 Kingston Hospital, Kingston, NY
 Kitsap PT and Sports Clinic, Poulsbo, WA
 Knight Physical Therapy, Garden Grove
 Knollwood Psychiatric Center, Riverside
 Knox Community Hospital, Mt. Vernon, OH
 Kodiak Island Hospital and Care Center, Kodiak, AK
 Kona Hospital, Kealahou, HI
 Kootenai Medical Center, Coeur d'Alene, ID
 Kornhill Physiotherapy Centre, Quarry Bay, Hong Kong
 KPMG Peat Marwick, Long Beach
 Kruppa Physical Therapy/Rimrock Villa Convalescent,
 Barstow
 Kyrene Elementary School District, Tempe, AZ
- L & J Telesmanic & Associate (Horizon Subacute),
 Fresno
- La Jolla Spine and Sport, La Jolla
 La Palma Intercommunity Hospital, La Palma
 La Pine Physical Therapy, La Pine, OR
 Lake Arrowhead Physical Therapy/Mountains
 Community Hospital, Lake Arrowhead
 Lake Centre for Rehabilitation, Leesburg, FL
 Lake Chelan Community Hospital, Lake Chelan, WA
 Lake Chelan Physical Therapy, Chelan, WA
 Lake City Orthopedic & Sports Physical Therapy,
 Coeur d'Alene, ID
 Lake Elsinore Unified School District, Lake Elsinore
 Lake Forest Hospital, Lake Forest, WA
 Lakeland Regional Health System, Berrien Center, MI
 Lakeland Regional Health System, St. Joseph, MI
 Lancaster Community Hospital, Lancaster
 Lanternman Developmental Center, Pomona
 LaPalma Intercommunity Hospital, La Palma
 Las Encinitos Hospital, Pasadena
 Las Virgenes Unified School District, Calabasas
 LaSalle Medical Associates, San Bernardino
 Laurie Lewis/Therapy 4 U, San Jacinto
 Lawrence Hospital, Bronxville, NY
 LDS Hospital Rehabilitation Center, Salt Lake City, UT
 Learning Service Corp., Gilroy
 LeBouheur Children's Medical Center, Memphis, TN
 Legacy Rehabilitation Services, Portland, OR
 Lehigh Valley Physical Therapy and Rehabilitation,
 Walnutport, PA
 Lester E. Cox Medical Center, Springfield, MO
 Lewis, Bower & Associates, Claremont
 Life Care Center of Kennewick, Kennewick, WA
 Life Care of Corona, Corona
 Lifecare Center of Hawaii, Hilo, HI
 Lifespan Wellness Clinic, Fullerton
 Lifestyle Center of America, Sulphur, OK
 Lihue PT & Sports Rehab of T.O.R.C.H., Hilo, HI
 Lincoln Regional Center, Lincoln, NE
 Linda Brown and Associates, Visalia
 Linda Valley Care Center, Loma Linda
 Locomotion Therapy, Covina
 Locomotion Therapy, Inc., 3-Way Hemet Convalescent,
 Los Angeles
 Loma Linda Fire Department, Loma Linda
 Loma Linda University Behavioral Medical Center,
 Loma Linda
 Loma Linda University Medical Center, Loma Linda
 Long Beach Memorial Medical Center, Long Beach
 Long Beach WIC Program, Long Beach
 Lorien Columbia Nursing & Rehabilitation Center,
 Columbia, MD
 Los Alamitos Medical Center, Los Alamitos
 Los Angeles (County of) Children's Medical Services, El
 Monte
 Los Angeles (County of) University of Southern
 California Medical Center, Los Angeles
 Los Robles Regional Medical Center, Thousand Oaks
 Louis A. Weiss Memorial Hospital, Chicago, IL
 Lourdes Medical Center, Pasco, WA
 Lutheran Community Health Services, dba Lutheran
 Rehab, Wheat Ridge, CO
 Lutheran Social Services of Southern California,
 Riverside
 Lynne K. Nishikawa, M.S., Inc., Colton

Macon Health Care, Macon, MO
Madera Community Hospital, Madera
Madonna Rehabilitation Hospital, Lincoln, NE
Magan Clinic, Covina
Magic Valley Regional Medical Center, Twin Falls, ID
Magnolia Physical Therapy, Huntington Beach
Magnolia Rehabilitation & Nursery Center, Riverside
Magro, Joseph, Do, San Bernardino
Manor Care Nursing & Rehabilitation Center, Hemet
Manor Care Nursing Center, Palm Desert
Marcus Daly Memorial Hospital, Hamilton, MT
Marguerite Physical Therapy Clinic, Inc., Mission Viejo
Marian Medical Center, Santa Maria
Mariners Rehabilitation, Costa Mesa
Mariposa Women's Center, Orange
Marshall Hospital, Placerville
Martin Army Community Hospital, Ft. Benning, GA
Martin Luther Hospital, Anaheim
Masada Homes, Gardena
Mater Misericordiae Hospital-Mercy Hospital, Merced
Matrix, Lodi
Matrix-Long Beach Sports Rehab, Long Beach
Maywood Health Care, Oxnard
Meadowbrook Rehabilitation Hospital, Tulsa, OK
Medford Sports Injury & Therapy Center, Medford, OR

- Northwest Physical Therapy, Mt. Vernon, WA
 Northwest Rehab Institute, Vancouver, WA
 Northwest Therapy and Fitness, Pontiac, MI
 Northwoods Rehab Associates/Howard Young Medical Center, Woodruff, WI
 Norton Hospitals Inc., Louisville, KY
 NOTAMI Hospitals of California, Inc., San Jose
 NOVA CARE Contract Division, Genesco, IL
 Nutrition and Lifestyle Medical Clinic, Calimesa
 Nutrition Consultation (Margaret K. Heath), Loma Linda
- Oasis Physical Therapy, Pasco, WA
 O'Conner Hospital-Physical Medicine, San Jose
 Occupational Therapy Training Program, Torrance
 Oceania, Palo Alto
 Odessa Physical Therapy, Odessa, TX
 Ojai Unified School District, Ojai
 Okanogan-Douglas District Hospital, Brewster, WA
 Old Town Physical Therapy Forrest Grove, OR
 Ontario-Montclair School District, Ontario
 Orange County Health Care Agency, Santa Ana
 Orange County Therapy Services, Laguna Hills
 Orange Unified School District, Orange
 Options, San Diego
 Oregon Health Sciences University, Human Performance Laboratory, University Hospital, Portland, OR
 Ortho Sports Physical Therapy, Mission Viejo
 Orthopaedic and Neurological Rehabilitation, Inc., Sacramento
 Orthopaedic Hospital, Los Angeles
 Orthopaedic Sports, Inc., Stillwater, MN
 Orthopedic & Sports PT, Santa Rosa
 Orthopedic Associates, Silver Spring, MD
 Orthopedic Hospital, Ltd., Houston, TX
 Orthopedic Physical Therapy Institute, Riverside
 Orthopedic Surgery and Sports Medicine Physical, La Habra
 Osteopathic Medical Center of Texas, Ft. Worth, TX
 OT for Kids, Belmont
 Our Lady of Victory Home of Charity-Baker Victory Services, Buffalo, NV
 Outback Physiotherapy, Redlands
 Outreach Therapy Consultants, Spokane, WA
- P.O.S.T. Rehabilitation Clinic, Moreno Valley
 PACE Therapy-Christian Heritage, Upland
 PACE Therapy-Clairemont Care Center, Pomona
 PACE Therapy, Inc.-Heritage Garden, Loma Linda
 PACE Therapy-Las Villas Del Norte Health Professions, Escondido
 PACE Therapy-Parkmont Care Center, Paramount
 PACE Therapy-Rancho Encinitas, Encinitas
 PACE Therapy-Vista Del Mar, Vista
 PACE Therapy-Western Care Center, Pomona
 Pacific Care Insurance Company, Cypress
 Pacific Coast Healthcare, Encino
 Pacific Gardens, Fresno
 Pacific Health Education Center, Bakersfield
 Pacific Physical Therapy, Monterey
 Pacific Southwest Therapies, Inc., Las Vegas, NV
 Pacific Therapies, Inc., Huntington Beach
 Pain Management Clinic of Hawaii, Inc., Honolulu, HI
 Palm Beach Medical Center, Palm Beach, FL
 Palm Beach Medical Center, West Palm Beach, FL
- Palm Springs Health Care, Palm Springs
 Palm Springs Unified School District, Palm Springs
 Palomar Pomerado Health System, San Diego
 Paradise Valley Hospital SouthBay Rehab Center, National City
 Park Manor Rehabilitation Center, Walla Walla, WA
 Parkridge Centre, Saskatoon, Canada
 Parkridge Hospital, Fletcher, NC
 Parkview Community Hospital (Soderno Marriot), Riverside
 Parkview Episcopal Medical Center, Pueblo, CO
 Parkview Memorial Hospital, Brunswick, ME
 Partners in Therapy, LLP, Ft. Worth, TX
 Pasadena Department of Health WIC Program, Pasadena
 Pasadena Rehabilitation Institute, Pasadena
 Pass Physical Therapy, Beaumont
 Paul Chang's Rehabilitation Services, Blue Springs, MO
 Peace Arch Hospital, White Rock, British Columbia, Canada
 PeaceHealth, Eugene, OR
 Peachwood PT Sports and Spine Center, Glendora
 Peak Performance, Chino
 Pediatric Building Blocks, San Ramon
 Pediatric Intervention Inc., San Jose
 Pediatric Therapy Associates, Shrewsbury, MA
 Pediatric Therapy Association, Plantation, FL
 Performance Physical Therapy, Orem, UT
 Performax PT, Littleton, CO
 Perspective Therapy, Oceanside
 Permian Regional Medical Center, Andrews, TX
 Phoenix Memorial Hospital and NOVACARE, Phoenix, AZ
 PhyCor, Inc., Honolulu, HI
 Physical Rehabilitation Center of Orange, Westminster
 Physical Therapy & Sports Rehabilitation Services,

- Samaritan Health System, Mesa, AZ
 San Antonio Community Hospital, Upland
 San Antonio Urology Medical Group, Inc., Upland
 San Bernardino City Fire Department, San Bernardino
 San Bernardino City Unified School District, San Bernardino
 San Bernardino County Medical Center, San Bernardino
 San Bernardino (County of) Mental Health Department, San Bernardino
 San Bernardino (County of) Office of Aging, San Bernardino
 San Bernardino County Preschool Services Department, San Bernardino
 San Bernardino (County of) Public Health Department, San Bernardino
 San Bernardino (County of) Superintendent of Schools, Colton
 San Diego (County of) California Children's Services, San Diego
 San Diego Hospital Association, San Diego
 San Gabriel Valley Medical Center, San Gabriel
 San Geronio Memorial Hospital, Banning
 San Joaquin Community Hospital (an Adventist Hospital), Bakersfield
 San Joaquin General Hospital, Stockton
 San Joaquin Valley Rehabilitation Hospital, Fresno
 San Jose Medical Center, San Jose
 San Pedro Peninsula Hospital, San Pedro
 Santa Ana Tustin Physical Therapy, Santa Ana
 Santa Barbara County California Children's Center, Santa Barbara
 Santa Monica Orthopedic Sports Medical Group, Santa Monica
 Scottish Rite Children's Healthcare, Atlanta, GA
 Scripps Clinic Wellness Program, La Jolla
 Scripps Health Ornish Program, La Jolla
 Scripps Memorial Hospital, Chula Vista
 Scripps Memorial Hospital, Encinitas
 Scripps Memorial Hospital, La Jolla
 Scripps Memorial Hospital, San Diego
 Scripps Mercy Hospital, San Diego
 Seattle-King County Department of Public Health, Seattle, WA
 Seattle Medical and Rehabilitation Center, Seattle, WA
 Seattle Physical Therapy, Seattle, WA
 Select Therapy, Inc., & Corona Meadows, Irvine
 Sentara Bayside Hospital, Virginia Beach, VA
 Sequoia Regional Cancer Center, Visalia
 Seton Medical Center, Daly City
 Shady Grove Adventist Hospital, Rockville, MD
 Shady Grove Center for Sports Medicine & Rehabilitation, Rockville, MD
 Shapewell, Inc., Palm Desert
 Sharp Cabrillo Hospital, San Diego
 Sharp Chula Vista Medical Center, San Diego
 Sharp Coronado Hospital & Healthcare Center, San Diego
 Sharp Grossmont Hospital, San Diego
 Sharp Healthcare, Hospital Association, San Diego
 Sharp Home Care, San Diego
 Shawnee Mission Medical Center, Shawnee Mission, KS
 Shea Health Center, San Bernardino
 Shelley Cooper Physical Therapy, Palm Desert
 Shoroye, Adeyinka, MD, Pediatrics, Riverside
 Shriners Hospital for Children, Los Angeles
 Shriners Hospital for Crippled Children, Lexington, KY
 Shriners Hospital for Crippled Children, Northern California, Sacramento
 Sierra Ortho & Athletic Rehabilitation, Diamond Springs
 Sierra Pediatric Clinic, Roseville
 Silverlake Youth Services, Yucaipa
 Simi Valley Adventist Hospital, Simi Valley
 Simonean Pediatric Center for Child Development, San Jose
 Siskin Hospital for Physical Rehabilitation, Chattanooga, TN
 Sisters of Providence in California, Burbank
 Sisters of Providence in Washington, Olympia, WA
 Sisters of Saint Joseph of Orange Corp., Mission Viejo
 Sky Life Ambulance, Fresno
 SO CA Center for Sports Medicine, Long Beach
 Sodexo Health Care Services at Desert Regional, Palm Springs
 Sodexo Health Care Services at Good Samaritan, Los Angeles
 Sonoma Valley Hospital, Sonoma
 Sonora Community Hospital, Sonora
 Sonora Physical Therapy Center, Sonora
 South Bay Spine and Physical Therapy, Torrance
 South Coast Medical Center, Laguna Beach
 South County Orthopedic Specialists, Laguna Hills
 South Haven Community Hospital, South Haven, MI
 South Pacific Rehab Services, Encino
 South Peninsula Hospital Homer, AK
 South Umpqua Physical Therapy, Roseburg, OR
 South Walton Physical Therapy & Rehabilitation, Santa Rosa Beach, FL
 Southcentral Counseling Center Anchorage, AK
 Southeast Rehabilitation Hospital, Dothan, AL
 Southern Hills Medical Center, Nashville, TN
 Southern Utah Physical Therapy, Cedar City, UT
 Southhill Physical Therapy/Sports Rehabilitation, Spokane, WA
 Southside Regional Medical Center, Petersburg, VA
 Southside Rehab Services, Colonial Heights, VA
 Southwest Palm Control & Sports Therapy, Palm Desert
 Southwest Physical Therapy, Littleton, CO
 Southwest Texas Methodist Hospital, San Antonio, TX
 Speech and Language Development Center, La Mirada
 Special Kids, Murfreesboro, TN
 Specialized PT Center, Orange City, FL
 Specialty Hospital of Southern California, La Mirada
 Spectrum Health East Campus, Grand Rapids, MI
 Soectrum MRI Imaging Center, Chino
 Speech and Language Development Center, Buena Park
 Spine & Sports Medicine Institute, Concord
 Spooner Physical Therapy, Scottsdale, AZ
 Sport and Spine Physical Therapy, San Bernardino
 Sports & Orthopedic Physical Therapy, Inc., Minneapolis, MN
 Sports & Orthopedic Therapy Services, Silver Spring, MD
 Sports Care of San Francisco Physical Therapy, San Francisco
 Sports Fit P.T., San Ramon
 Sports Medicine and Ortho Rehab Center, Vienna, VA
 Sports Medicine Giant, Columbus, OH

Sports Medicine Hawaii Ltd., Honolulu, HI
 Sports Medicine Institute, Orange
 Sports Medicine Institute of Sinai Samaritan Medical
 Center, Mequon, WI
 Sports Orthopedics and Rehabilitation, Tamuning,
 Guam
 Sports Performance, Pleasant
 Springdale Village, Mesa, AZ
 Square One Rehabilitation, Kansas City, KS
 SSM Health Care of Oklahoma, OK
 St. Agnes Cancer Center, Fresno
 St. Alexis Hospital and Medical Center, Cleveland, OH
 St. Alphonsus Regional Medical Center, Boise, ID
 St. Anthony Hospital, Oklahoma City, OK
 St. Bernardine Medical Center/Community Hospital,
 San Bernardino
 St. Charles Hospital, Port Jefferson, NY
 St. Charles Medical Center, Bend, OR
 St. Elizabeth Community Health Center, Lincoln, NE
 St. Francis Healthcare Network, Honolulu, HI
 St. Francis Medical Center, Lynwood
 St. Francis Medical Center–West, Ewa Beach, HI
 St. George Care & Rehab Center, St. George, UT
 St. George Physical Therapy, Charlotte, NC
 St. Helena Hospital and Health Center an Adventist
 Hospital, Deer Park
 St. John's Health System, Lebanon, MO
 St. John's Hospital & Health Center, Santa Monica
 St. John's Medical Center, Tulsa, OK
 St. John's Mercy Hospital, Washington, MO
 St. John's Regional Medical Center, Oxnard
 St. Joseph Health System, Eureka
 St. Joseph Health Systems, Santa Rosa
 St. Joseph Hospital, Lexington, KY
 St. Joseph Hospital of Orange, Orange
 St. Joseph Medical Center, Burbank
 St. Joseph Regional Medical Center, Lewiston, ID
 St. Joseph's Hospital of Atlanta, Atlanta, GA
 St. Joseph's Medical Center of Stockton, Stockton
 St. Jude Medical Center, Fullerton
 St. Louis Health Care Network, St. Louis, MO
 St. Luke's Hospital, Kansas City, MO
 St. Luke's Hospital, Phoenix, AZ
 St. Luke's Rehabilitation Institute, Spokane, WA
 St. Mary Medical Center, Apple Valley
 St. Mary Medical Center, Catholic Healthcare West, So
 Cal, Long Beach
 St. Mary Medical Center and Turning Point Rehab,
 Walla Walla, WA
 St. Mary Regional Medical Center, Apple Valley
 St. Patrick Hospital, Missoula, MT
 St. Rose Hospital, Hayward
 St. Vincent Information Medical Center, Little Rock, AR
 Salinas Valley Memorial Medical Center, Salinas
 Sisters of Providence in California
 Sisters of Providence in Washington
 Stanford Hospitals & Clinics, Stanford
 Star Rehabilitation, Corona
 State of Alaska, Department of Health and Social
 Services, Division of Public Health, Anchorage, AK
 Stein Education Center, San Diego
 Stevens Memorial Hospital, Edmond, WA
 Stewart Rehabilitation Center, McKay Dee Hospital,
 Ogden, UT
 Storm Physical Therapy, Medford, OR
 Strategic Health Services, Riverside
 Straub Clinics Hospital, Lihue, HI
 Summit Medical Center, Hermitage, TN
 Summit Physical Therapy, Claremore, OK

Way Station, Inc., Frederick, MD
Wayne L. Shelton, PT, Spanish Fork, UT
Weed Army Community Hospital, Ft. Irwin
Well Tone Aquatics & Physical Therapy Centers,
Riverside
Wellmont Health System, Bristol, TN
Wellton Health Systems, Bristol, TN
Wesley Woods Geriatric Hospital, Atlanta, GA
West Allis Memorial Hospital, Peak Performance Clinic,
West Allis, WI
West Anaheim Extended Care, Anaheim
West Coast Spine Restoration Center, Riverside
West Covington Community Health Center, MD

CA	LM	SCI	C S	M.P.A.				
CLASS	A.S.	B.S.	TOTAL	CLASS	A.S.	B.S.	M.S.	TOTAL
1972	7	-	7	1988	23	12	-	35
1973	18	-	18	1989	8	6	-	14
1974	15	2	17	1990	9	8	-	17
1975	18	5	23	1991	14	4	-	18
1976	16	3	19					
1977	16	2	18					
1978	15	6	21					
1979	19	12	31					
1980	22	15	37					
1981	22	13	35					
1982	20	13	33					
1983	19	12	31					
1984	12	5	17					
1985	18	5	23					
1986	11	9	20					
1987	8	8	16					

CLASS	CODING	CERT.	B.S.	TOTAL
1966	-	-	7	7
1967	-	-	3	3
1968	-	-	16	16
1969	-	-	12	12
1970	-	-	7	7
1971	-	-	4	4
1972	-	-	10	10
1973	-	-	12	12
1974	-	-	13	13
1975	-	-	11	11
1976	-	-	17	17
1977	-	-	16	16
1978	-	-	17	17
1979	-	-	15	15
1980	-	-	21	21
1981	-	-	13	13
1982	-	-	11	11
1983	-	-	9	9
1984	-	-	11	11

CLASS	CODING	CERT.	B.S.	M.H.I.S.	TOTAL
1985	-	-	5	-	5
1986	-	-	8	-	8
1987	-	-	7	-	7
1988	22	-	18	-	40
1989	40	-	15	-	55
1990	34	-	13	-	47
1991	42	-	2	-	44
1992	-	-	8	-	8
1993	26	-	10	-	36
1994	24	-	6	-	30
1995	10	1	10	-	21
1996	9	-	7	-	16
1997	15	3	10	-	28
1998	28	1	8	-	37
1999	26	-	13	6	45
2000	27	-	11	12	50
2001	27	-	8	6	41
2002	39	1	10	5	55
2003					

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CLASS	CERT.	B.S.	A.A.	M.O.T	P.P.M.O.T.	TOTAL
1961	-	3	-	-	-	3
1962	-	3	-	-	-	3
1963	-	9	-	-	-	9
1964	-	8	-	-	-	8
1965	-	10	-	-	-	10
1966	-	3	-	-	-	3
1967	-	9	-	-	-	9
1968	-	5	-	-	-	5
1969	-	9	-	-	-	9
1970	-	8	-	-	-	8
1971	-	6	-	-	-	6
1972	-	11	-	-	-	11
1973	-	20	-	-	-	20
1974	-	22	-	-	-	22
1975	-	16	-	-	-	16
1976	-	24	-	-	-	24
1977	-	22	-	-	-	22
1978	-	21	-	-	-	21
1979	-	24	-	-	-	24
1980	-	25	-	-	-	25
1981	-	23	-	-	-	23
1982	-	24	-	-	-	24
1983	-	25	-	-	-	25
1984	-	29	-	-	-	29
1985	-	22	-	-	-	22
1986	-	26	-	-	-	26
1987	-	22	-	-	-	22
1988	-	22	-	-	-	22
1989	3	36	8	-	-	47
1990	-	35	9	-	-	44
1991	3	33	19	-	-	55
1992	5	38	28	-	-	71
1993	9	34	35	-	-	78
1994	16	25	28	-	-	69
1995	15	37	49	-	-	101
1996	14	40	47	-	-	101
1997	15	39	52	-	-	106
1998	16	43	62	-	-	121
1999	4	48	41	-	-	93
2000	4	53	19	-	-	76
2001	6	34	4	-	6	50
2002	-	3	4	7	5	19
2003	-	-	7	25	2	34
2004	-	-	6	22	1	29

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CLASS	CERT.	A.S.	B.S.	Entry-Level M.P.T./D.P.T.	Post-Professional M.P.T./Dr.P.T./D.P.T.Sc.	TOTAL
1944	2	-	-	-	-	2
1945	8	-	1	-	-	9
1946	22	-	5	-	-	27
1947	11	-	3	-	-	14
1948	11	-	5	-	-	16
1949	2	-	5	-	-	7
1950	3	-	12	-	-	15
1951	9	-	9	-	-	18
1952	2	-	10	-	-	12
1953	9	-	2	-	-	11
1954	4	-	11	-	-	15
1955	5	-	8	-	-	13
1956	8	-	5	-	-	13
1957	5	-	12	-	-	17
1958	-	-	1	-	-	1
1959	1	-	22	-	-	23
1960	-	-	24	-	-	24
1961	-	-	31	-	-	31
1962						

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ALLIED HEALTH					ALLIED HEALTH				
CLASS	CERT.	A.S.	B.S.	TOTAL	CLASS	CERT.	A.S.	B.S.	TOTAL
1944	5	-	-	5	1974	6	21	7	34
1945	5	-	-	5	1975	8	19	3	30
1946	4	-	-	4	1976	-	26	1	27
1947	2	-	-	2	1977	19	23	1	43
1948	6	-	-	6	1978	18	28	2	48
1949	6	-	-	6	1979	14	22	4	40
1950	6	-	-	6	1980	11	22	5	38
1951	7	-	-	7	1981	13	25	3	41
1952	7	-	-	7	1982	8	22	2	32
1953	6	-	-	6	1983	19	15	2	36
1954	5	-	-	5	1984	13	16	-	29
1955	9	-	-	9	1985	13	15	5	33
1956	8	-	-	8	1986	15	16	3	34
1957	8	-	-	8	1987	15	15	1	31
1958	5	-	-	5	1988	17	16	5	38
1959	6	-	-	6	1989	14	17	2	33
1960	10	-	-	10	1990	17	16	2	35
1961	4	-	-	4	1991	27	15	6	48
1962	4	-	-	4	1992	19	17	2	38
1963	4	-	-	4	1993	23	24	5	52
1964	3	-	-	3	1994	24	31	3	58
1965	5	-	-	5	1995	24	36	4	64
1966	8	-	-	8	1996	15	-	7	22
1967	6	-	-	6	1997	12	-	2	14
1968	6	2	-	8	1998	30	31	8	69
1969	1	11	-	12	1999	27	21	8	56
1970	1	3	2	6	2000	35	23	3	61
1971	2	10	1	13	2001	-	18	5	23
1972	2	15	2	19	2002	43	19	6	68
1973	6	12	1	19	2003	50	14	6	70

SCHOOL OF ALLIED HEALTH		SCHOOL OF ALLIED HEALTH	
CLASS	B.S.	CLASS	B.S.
1967	7	1985	12
1968	4	1986	5
1969	4	1987	3
1970	11	1988	13
1971	7	1989	9
1972		1990	12
1973	14	1991	7
1974	8	1992	12
1975	11	1993	12
1976	7	1994	9
1977	11	1995	4
1978	8	1996	22
1979	6	1997	14
1980	7	1998	13
1981	8	1999	18
1982	11	2000	14
1983	7	2001	6
1984	11	2002	10
		2003	11

ACCREDITATION STATUS

HISTORICAL

Founded as College of Evangelists 1905-06. Chartered as College of Medical Evangelists by the state of California December 13, 1909. Accredited by Northwest Association of Secondary and Higher Schools April 7, 1937. Accredited by WASC (Western Association of Schools and Colleges) (prior to January 1962, Western College Association) February 24, 1960. Became Loma Linda University July 1, 1961. Professional curricula started and approved as indicated.

HISTORICAL

Academy of Health Sciences Started in 1954. Accredited through University accreditation.

SCHOOL ALLIANCE

CLINICAL LABORATORY SCIENCE Formerly: Medical Technology : Started in 1937. Approved by the Council on Medical Education of the American Medical Association since August 28, 1937. Currently approved by the Commission on Accreditation of Allied Health Education Programs in collaboration with the National Accrediting Agency for Clinical Laboratory Sciences.

COUNCIL ON OCCUPATIONAL THERAPY : Started in 1982. Initial approval by the Commission on Accreditation of Allied Health Education Programs in collaboration with the Cytotechnology Programs Review Committee January 20, 1983.

DIAGNOSTIC MEDICAL SONOGRAPHY : Started in 1976 as diagnostic medical sonography. Approved by the Joint Review Committee on Education in Diagnostic Medical Sonography October 24, 1985.

DIETETIC TECHNOLOGY : Started in 1988. The Dietetic Technology Program is currently granted continuing accreditation by the Commission on Accreditation for Dietetics Education of the American Dietetic Association April 25, 1988.

EMERGENCY MEDICAL CARE : Started in 1993 as a baccalaureate degree program for paramedics, respiratory therapists, and other allied health professionals desiring education, science, or management credentials in emergency medical services.

HEALTH INFORMATION MANAGEMENT : Started as medical record administration in 1963. Approved by the Council on Medical Education of the American Medical Association since December 1, 1963. Currently approved by the Commission on Accreditation of Allied Health Education Programs in collaboration with the American Health Information Management Association.

MEDICAL RADIOLOGY : Started in 1941 as radiological technology. Approved by the Council on Medical Education of the American Medical Association November 19, 1944. Currently approved by the Joint Review Committee on Education in Radiologic Technology and the California State Department of Health Services.

NUCLEAR MEDICINE TECHNOLOGY : Started in 1970. Approved by the Council on Medical Education of the American Medical Association June 23, 1973. Currently approved by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology.

NUTRITION AND DIETETICS : Started in 1922 as a certificate program; baccalaureate degree conferred 1932-54; graduate program offered since 1954. Internship program continuously approved by The American Dietetic Association from 1957 through 1974; reestablishment of baccalaureate degree program authorized October 1971. Since 1974 the Coordinated Program in Dietetics has been granted accreditation by the Commission on Accreditation for Dietetics Education of the American Dietetic Association.

OCCUPATIONAL THERAPY : Started in 1959. Initial approval by the Council on Medical Education of the American Medical Association June 10, 1960. Full approval March 30, 1962. Currently approved by the Accreditation Council for Occupational Therapy Education.

OCCUPATIONAL THERAPY ASSISTANT : Started in 1988. Approved by the Commission on Accreditation of Allied Health Education Programs in collaboration with The American Occupational Therapy Association (AOTA) April 13, 1989. Currently accredited by the Accreditation Council for Occupational Therapy Education of the AOTA.

LABORATORY : Started in 1994. Accredited/approved April 1997 both by the California Department of Health, Laboratory Field Services and by the National Accrediting Agency for Clinical Laboratory Science (NAACLS); with continuing state approval, reaccredited April 2001 by NAACLS.

PHYSICAL THERAPY ASSISTANT : Started in 1989. Approved by the American Physical Therapy Association April 4, 1990.

PHYSICAL THERAPY : Started in 1941. Initial approval by the Council on Medical Education of the American Medical Association June 6, 1942. Currently approved by the American Physical Therapy Association.

PHYSICIAN ASSISTANT : Started in 2000. Provisional accreditation granted October 20, 2000, by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Effective January 1, 2001, CAA-HEP was succeeded by the Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC-PA). Accredited March 2002 by ARC-PA.

ADIA ION A : Approved by the Council on Medical Education of the American Medical Association December 1, 1974. Currently approved by the Joint Review Committee on Education in Radiologic Technology.

I A O CA : Started in 1971. Initial approval by the Council on Medical Education of the American Medical Association September 1972. Full approval June 1973. Currently approved by the Commission on Accreditation of Allied Health Education Programs in collaboration with the Joint Committee on Accreditation for Respiratory Care Education.

C-LAN UA A LO AND AUDIOL O : Approved by the American Speech-Language-Hearing Association June 1, 1991.

SCH L IS : Started in 1953. Approved by the Commission on Dental Accreditation of the American Dental Association since May 23, 1957.

D N AL I N : Started in 1959. Approved by the Commission on Dental Accreditation of the American Dental Association since September 7, 1961.

NDODON IC : Started in 1967. Approved by the Commission on Dental Accreditation of the American Dental Association since December 1969.

O AL AND MA ILO ACIAL U : Started in 1964. Approved by the Commission on Dental Accreditation of the American Dental Association since 1967.

O I O DON IC AND D N O ACIAL O I O DIC : Started in 1960. Approved by the Commission on Dental Accreditation of the American Dental Association since May 1965.

DIA IC D N I : Started in 1993. Approved by the Commission on Dental Accreditation of the American Dental Association since December 1993.

I O DON IC : Started in 1961. Approved by the Commission on Dental Accreditation of the American Dental Association since December 1967.

O I O DON IC : Started in 1993. Approved by the Commission on Dental Accreditation of the American Dental Association since February 1995.

SCH L M ICI : Started in 1909. Approved by the Association of American Medical Colleges and the Council on Medical Education of the American Medical Association since November 16, 1922.

SCH L SI : Hospital school started at Loma Linda in 1905. Hospital school added at Los Angeles in 1924. Collegiate program in nursing organized in 1948. Accredited by the National Nursing Accrediting Service December 10, 1951, with approval continuing under the

National League for Nursing until 2001. Initial 1917 approval of the California State Board of Health extended until college program approved July 1, 1952, by the California Board of Registered Nursing. California Board of Registered Nursing approval since 1952. Public health nursing preparation recognized in 1959. School accredited by the Commission on Collegiate Nursing Education (CCNE) since 1999.

SCH L LIC H AL H : Started in 1948; reorganized in 1964. Approved by the American Public Health Association June 23, 1967. Currently approved by the Council on Education for Public Health.

ACC I A C I S

H I S

Loma Linda University is accredited by WASC.

Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges (WASC)

985 Atlantic Avenue, Suite 100

Alameda, CA 94501

Phone: 510 / 748-9001

FAX: 510 / 748-9797

Web site: www.wascweb.org

Email: wascsr@wascsenior.org

WASC is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Commission on Recognition of Postsecondary Accreditation.

In addition to WASC, the following agencies accredit specific University schools or programs :

A A SCH L

ug and Alcohol Counseling
California Association of Alcoholism and Drug Abuse Counselors (CAADAC)

3400 Bradshaw Road, Suite A5

Sacramento, CA 95827

Phone: 916 / 368-9412

FAX: 916 / 368-9424

Web site: www.caadac.org

Email: caadac@jps.net

Marital and Family Therapy

Commission on Accreditation for Marriage and Family Therapy Education of the American Association for Marriage and Family Therapy

1133 15th Street, NW, Suite 300

Washington DC 20005-2710

Phone: 202 / 467-5111 or 452-0109

FAX: 202 / 223-2329

Web site: www.aamft.org

Email: coamfte@aamft.org

All entry-level degrees are accredited by their respective professional accreditation associations.

Psychology

American Psychological Association
750 First Street NE
Washington, DC 20002-4242
Phone: 202 / 336-5500
FAX: 202 / 336-5978
Web site: www.apa.org
Email: education@apa.org

Social Work

Council on Social Work Education
Division of Standards and Accreditation
1600 Duke Street, Suite 500
Alexandria, VA 22314-3457
Phone: 703 / 683-8080
FAX: 703 / 683-8099
Web site: www.cswe.org
Email: info@cswe.org

Speech Language Pathology

Speech-Language Pathology
Educational Standards Board
American Speech-Language-Hearing
Association
10801 Rockville Pike
Rockville, MD 20852
Phone: 301 / 897-5700
FAX: 301 / 571-0457
Web site: www.asha.org
Email: accreditation@asha.org

SCHOOL ALLIANCE

Cardiopulmonary Sciences

Respiratory Care

Committee on Accreditation for Respiratory Care
1248 Harwood Road
Bedford, TX 76021-4244
Phone: 800 / 874-5615 or 817 / 283-2835
FAX: 817 / 354-8519 or 817 / 252-0773
Web site: www.coarc.com
Email: richwalker@coarc.com

Physician Assistant

Accreditation Review Commission on Education for the
Physician Assistant (ARC-PA)
Medical Education Department 1R6
1000 North Oak Avenue
Marshfield, WI 54449-5778
Phone: 715 / 389-3785
FAX: 715 / 387-5163
Web site: www.arc-pa.org
Email: mccartyj@mfldclin.edu

Clinical Laboratory Science

Phlebotomy Certificate

National Accrediting Agency for Clinical Laboratory
Sciences (NAACLS)
8410 West Bryn Mawr Avenue, Suite 670
Chicago, IL 60631-3415
Phone: 773 / 714-8880
FAX: 773 / 714-8886
Web site: www.naacls.org
Email: naaclsinfo@naacls.org

California Department of Health, Laboratory Field Services

2151 Berkeley Way, Annex 12
Berkeley, CA 94707-1011
Phone: 510 / 873-6449

Clinical Laboratory Science

Physical Therapy
 Commission on Accreditation in Physical
 Therapy Education
 American Physical Therapy Association
 (APTA)
 1111 North Fairfax Street
 Alexandria, VA 22314
 Phone: 703 / 706-3245
 FAX: 703 / 838-8910
 Web site: www.apta.org
 Email: see Web site

Radiologic Technology
 Medical Radiography, A S
 Radiologic Technology, Certificate
 Joint Review Committee on Education in
 Radiologic Technology (JRCERT)
 20 North Wacker Drive, Suite 900
 Chicago, IL 60606-2901
 Phone: 312 / 704-5300
 FAX: 312 / 704-5304
 Web site: www.jrcert.org

Diagnostic Medical Sonography, Certificate
 Commission on Accreditation of Allied Health
 Education Programs (CAAHEP)
 35 East Wacker Drive, Suite 1970
 Chicago, IL 60601-2208
 Web site: www.caahep.org
 Email: sharonworthing@coarc.com

Joint Review Committee on Education in
 Diagnostic Medical Sonography (JRCE-DMS)
 1248 Harwood Road
 Bedford, TX 76021-4244
 Phone: 817 / 685-6629
 FAX: 817 / 354-8519
 Web site: www.jrcdms.org
 Email: sharonworthing@coarc.com

Nuclear Medicine Technology, Certificate
 California Department of Health Services
 Radiologic Health Branch
 P. O. Box 942732
 Sacramento, CA 94234-7320
 Phone: 916/322-5096
 FAX: 916/324-3610
 Web site: www.csrt.org
 Email: RKubiak@dhs.ca.gov

Speech Language Pathology and Audiology
 American Speech-Language-Hearing
 Association
 10801 Rockville Pike
 Rockville, MD 20852
 Phone: 301 / 897-5700
 FAX: 301 / 571-0481
 Web site: www.asha.org
 Email: accreditation@asha.org

SCH L I S I
 Commission on Dental Accreditation
 of the American Dental Association
 211 East Chicago Avenue
 Chicago, IL 60611
 Phone: 800 / 621-8099
 FAX: 312 / 440-2915
 Web site: www.ada.org
 Email: accreditation@ada.org

SCH L M ICI
 Liaison Committee on Medical Education
 Association of American Medical Colleges
 2450 N Street NW
 Washington, DC 30037
 Phone: 202 / 828-0596
 FAX: 202 / 828-1125
 Web sites: www.lcme.org; www.aamc.org
 Email: lcme@aamc.org

SCH L SI
 Board of Registered Nursing
 1170 Durfee Avenue, Suite G
 South El Monte, CA 91733
 Phone: 626 / 575-7080
 FAX: 626 / 575-7090
 Web site: www.rn.ca.gov
 Commission on Collegiate Nursing Education
 (CCNE)
 One Dupont Circle NW, Suite 530
 Washington, DC 20036-1120
 Phone: 202 / 887-6791
 FAX: 202 / 887-8476
 Web Site: www.aacn.nche.edu/accreditation

SCH L LIC H AL H
 Council on Education for Public Health
 800 Eye Street NW, Suite 202
 Washington, DC 20001-1397
 Phone: 202 / 789-1050
 FAX: 202 / 789-1895
 Web site: www.ceph.org
 Email: jconklin@ceph.org

Health Promotion and Education
 Certified Health Education Specialist CHES
 National Commission for Health Education
 Credentialing, Inc.
 944 Marcon Boulevard, Suite 310
 Allentown, PA 18109
 Phone: toll free 888 / 624-3248 or 673-5445
 FAX: 800 / 899-4817
 Web site: www.nchec.org
 Email: nchec@fast.net

Environmental and Occupational Health
 Registered Environmental Health Specialist
 State of California
 Environmental Health Specialist
 Registration Program
 601 North 7th Street, MS 396
 P.O. Box 942732
 Sacramento, CA 94234-7320
 Phone: 916 / 324-8819
 FAX: 916 / 323-9869
 Web site: www.dhs.ca.gov
 or www.dhs.cahwnet.gov
 Email: rhook1@dhs.ca.gov

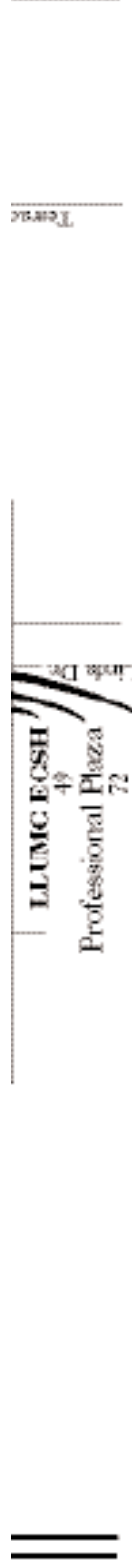
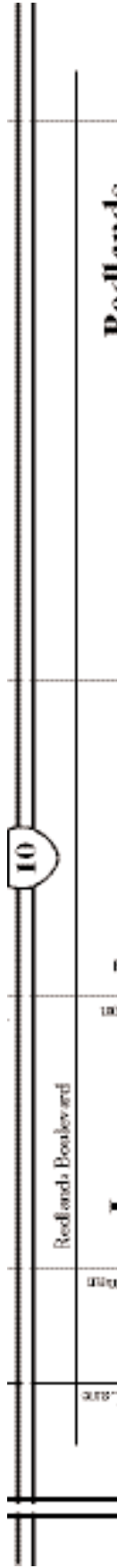
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San Bernardino
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