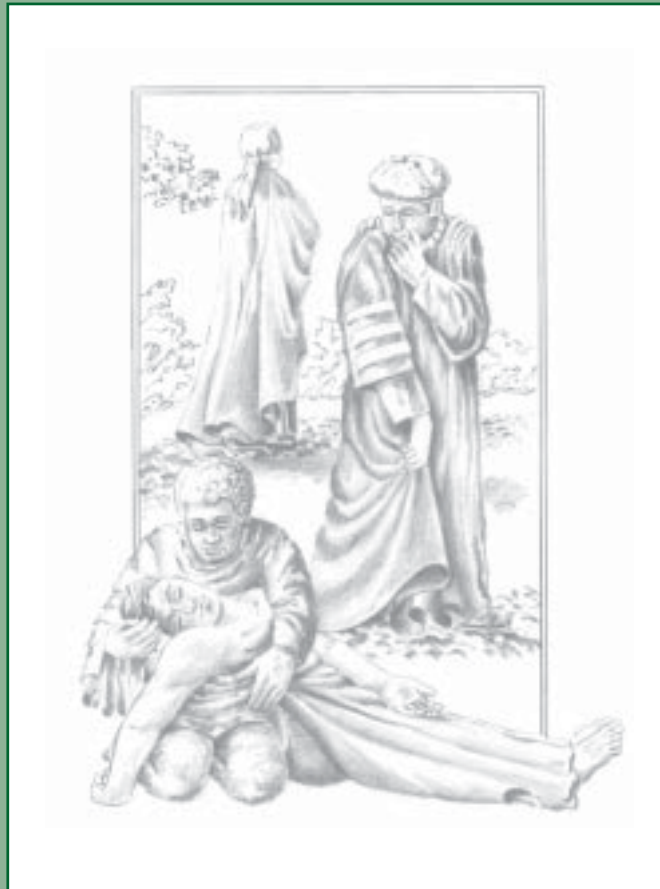


*LOMA LINDA UNIVERSITY*



**SCHOOL OF MEDICINE**

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This BULLETIN is the definitive statement of the School of Medicine on the requirements for admission, enrollment, curriculum, and graduation. The School of Medicine 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 admission, registration, tuition and fees, attendance, curriculum requirements, conduct, academic standing, candidacy, and graduation.

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**Loma Linda University**

**Loma Linda, CA 92350**

a health-sciences university

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# I

## LOMA LINDA UNIVERSITY

University Foundations

Our Mission

Nondiscrimination Policy

Affirmative Action

The Calendar

# University Foundations

## HISTORY

**L**oma 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, 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, 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, 2002) indicate that the core of the combined faculties consists of 1,070 full-time teachers. Part-time and voluntary teachers, largely clinicians in the professional curricula, bring the total to 2,484. As of Autumn Quarter 2001, students from 83 countries are represented in the enrollment of 3,403.

## PHILOSOPHY

**A**s 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 to 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.



# Our Mission

**L**oma Linda University, a Seventh-day Adventist Christian health-sciences institution, seeks to further the healing and teaching ministry of Jesus Christ “To make man whole” by:

Educating ethical and proficient Christian health professionals and scholars through instruction, example, and the pursuit of truth;

Expanding knowledge through research in the biological, behavioral, physical, and environmental sciences and applying this knowledge to health and disease;

Providing comprehensive, competent, and compassionate health care for the whole person through faculty, students, and alumni.

In harmony with our heritage and global mission:

We encourage personal and professional growth through integrated development of the intellectual, physical, social, and spiritual dimensions of each member of the University community and those we serve.

We promote an environment that reflects and builds respect for the diversity of humanity as ordained by God.

We seek to serve a worldwide community by promoting healthful living, caring for the sick, and sharing the good news of a loving God.

To achieve our mission we are committed to:

## OUR STUDENTS

**O**ur primary responsibility is the education of students, who come from diverse ethnic and cultural backgrounds, enabling them to acquire the foundation of knowledge, skills, values, attitudes, and behaviors appropriate for their chosen academic or health care ministry. We nurture their intellectual curiosity. We facilitate their development into active, independent learners. We provide continuing educational opportunities for our alumni and professional peers. We encourage a personal Christian faith that permeates the lives of those we educate.

**OUR FACULTY, STAFF, AND ADMINISTRATION**

**W**e 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.

**OUR PATIENTS AND OTHERS WE SERVE**

**W**e 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.

**OUR GOD AND OUR CHURCH**

**W**e 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.

# Nondiscrimination Policy

**T**he 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 Medicine. 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 discrimination on the basis of age, except in those programs where age is a bona fide academic qualification for admission in accordance with the provisions of the Age Discrimination Act of 1975.

The University reserves constitutional and statutory rights as a religious institution and employer to give preference to Seventh-day Adventists in admissions and employment, including but not limited to 42 USC Secs. 2000e-1, 2000e-2; Sec. 6-15 of Federal Executive Order 11246; 41 CFR Sec. 60-1.5(5); 20 USC Sec. 1681 (a)(3); 34 CFR Secs. 106.12 (a)(b), 106.21, 106.31, 106.39, 106.40, 106.51, and 106.57; California Government Code Sec. 12926(d)(1); Title II, Division 4, Chapter 2, Sec. 7286.5 of the California Code of Regulations; the First Amendment to the United States Constitution; and Article I, Sec. 4, of the California Constitution. The University believes that Title IX regulations are subject to constitutional guarantees against unreasonable entanglement with or infringements on the religious teachings and practices of the Seventh-day Adventist church. The University expects students and employees to uphold biblical principles of morality and deportment as interpreted by the Seventh-day Adventist church. The University claims exemptions from the provisions of Title IX set forth in 34 CFR Secs. 106.12 (a)(b), 106.21, 106.31, 106.39, 106.40, 106.51, and 106.57.

# Affirmative Action

**T**he 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 equal access to admissions, educational programs and activities, financial aid, student services, and employment.

In compliance with Title IX of the Educational Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973, a grievance procedure has been established to process student complaints alleging violation of these regulations or of the University's policy of nondiscrimination based on gender or handicap. Inquiries concerning Title IX may be directed to the affirmative action officer. Employment-related discrimination complaints, including those filed by student employees, are processed in conformity with the provisions outlined in existing staff personnel policies. Complaints related to discrimination in academic areas are reviewed in conformity with the procedures established by the academic administration.

# The Calendar

## 2001

### JUNE

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

1	Early registration for summer sessions
7-11	Final examinations—FR
4- 8	Final examinations—LLU
8	Spring Quarter ends
11-15	NBME subject examinations—FR
12	Grades due from faculty
18-AUG 31	<b>SUMMER SESSIONS 2001—LLU</b>
18-JUL 24	First five-week summer session
18-AUG 31	Eleven-week summer session
18	Last day to obtain financial clearance—LLU
18	Instruction begins—LLU
21	Registration—JR, SR

### JULY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

2	Clerkships—JR
2	Orientation/OCM course begins
4	Independence Day recess
25-AUG 30	Second five-week summer session
30	Instruction begins—JR, SR
One week after course begins	Last day to enter a course or change from audit to credit/credit to audit
One week after course begins	Last day to withdraw with no record of course registration on transcript
One week before end of course	Last day to withdraw with a W grade or to submit S/U petition
31-AUG 1	Careers in Medicine seminar

### AUGUST

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

2- 3	Registration and orientation—FR
5	Instruction begins—FR
31	Summer Quarter ends

### SEPTEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

3	Labor Day recess
4	Summer registration—SO
4	Orientation/Instruction begins—SO
4-21	Registration for Autumn Quarter—FR, SO, JR, SR
4-21	Post-Summer Quarter session
4	Instruction begins, Post-Summer Quarter session
10-14	Midterm examinations—FR
24-DEC 14	<b>AUTUMN QUARTER 2001</b>
24	Last day to obtain financial clearance and to complete registration without a late fee
24-28	Faculty/Student retreat—SM

# The Calendar

## 2001

### OCTOBER

S	M	T	W	T	F	S		
	1	2	3	4	5	6	2	Last day to enter a course or change from audit to credit/credit to audit
7	8	9	10	11	12	13		
14	15	16	17	18	19	20	3-31	Hispanic Heritage month
21	22	23	24	25	26	27	4	Campus/Chamber of Commerce Connection
28	29	30	31				8-12	Fall Week of Devotion
							9	Diversity new student orientation
							9	Last day to withdraw with no record of course registration on transcript
							15-19	Midterm examinations—SO
							17	ALAS chapel
							19	Examinations—JR
							22-26	Midterm examinations—FR
							24	University Convocation

### NOVEMBER

S	M	T	W	T	F	S		
				1	2	3		
4	5	6	7	8	9	10	10	Bioethics Center Annual Contributor's Convocation
11	12	13	14	15	16	17	16-17	Annual BALL/BHPSA student retreat
18	19	20	21	22	23	24	21-23	Thanksgiving recess—FR, SO
25	26	27	28	29	30		26	Instruction resumes
							26	Last day to withdraw with a W grade or to submit S/U petition
							26-DEC 21	Registration for Winter Quarter—LLU
							29	Registration for Winter Quarter—SM

### DECEMBER

S	M	T	W	T	F	S		
						1		
2	3	4	5	6	7	8	2	Registration—FR, SO, JR, SR
9	10	11	12	13	14	15	7	Final examinations—FR, SO
16	17	18	19	20	21	22	10-14	Final examinations—LLU
23	24	25	26	27	28	29	14	Autumn Quarter ends
30	31						14-JAN 1	Christmas recess—FR, SO
							14-30	Christmas recess—JR, SR
							18	Grades due from faculty
							30	Instruction begins—JR, SR

## 2002

### JANUARY

S	M	T	W	T	F	S		
		1	2	3	4	5	3	Last day to obtain financial clearance—LLU
6	7	8	9	10	11	12	3	Instruction begins—LLU
13	14	15	16	17	18	19	3-MAR 15	<b>WINTER QUARTER 2002</b>
20	21	22	23	24	25	26	7	Instruction begins—FR, SO
27	28	29	30	31			9	Last day to enter a course or change from audit to credit/credit to audit
							12-19	Mission Emphasis Week
							16	Last day to withdraw with no record of course registration on transcript
							21	Martin Luther King, Jr., Day recess—FR, SO
							22-25	Student Week of Spiritual Emphasis
							25	Final examinations—JR
							28-FEB 1	Midterm examinations—FR

# The Calendar

## 2002

### FEBRUARY

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

4-8	Midterm examinations—SO
6-24	Black History month
15	Family day and FR Dedication—SM
18	Presidents' Day recess
25	Last day to withdraw with a W grade or to submit S/U petition
25-MAR 22	Registration for Spring Quarter—LLU

### MARCH

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

1-5	Annual Postgraduate Convention (APC)
11-15	Final examinations—FR, SO
11-15	Final examinations—LLU
15	Winter Quarter ends
TBA	Match seminar—JR
TBA	Match seminar—SR
16-24	Spring break—LLU
19	Grades due from faculty
25-JUN 7	<b>SPRING QUARTER 2002</b>
25	Last day to obtain financial clearance and to complete registration without a late fee
25	Instruction begins—FR, SO

### APRIL

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

2	Last day to enter a course or change from audit to credit/credit to audit
8-12	Spring Week of Devotion
9	Last day to withdraw with no record of course registration on transcript
12-13	HALL/ALAS student retreat
15-19	Midterm examinations—SO
19	Examinations—JR
22-26	Midterm examinations—FR

### MAY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

11	Diversity Consecration service
13-17	Final examinations—SO
16	Basic science comprehensive examination—SO
20	Last day to withdraw with a W grade or to submit S/U petition
20-24	NBME subject examinations and basic science comprehensive examination—SO
24	Hooding ceremony
25	Baccalaureate service
26	Conferring of Degrees
27	Memorial Day recess
29-JUN 14	Early registration for summer sessions—LLU

# The Calendar

## 2002

### JUNE

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

7	Spring Quarter ends—LLU
10–14	Final examinations—FR
11	Grades due from faculty
17–21	NBME subject examinations—FR
	<b>SUMMER SESSIONS 2002—LLU</b>
17–JUL 23	First five-week summer session
17–AUG 30	Eleven-week summer session
17	Last day to obtain financial clearance
17	Instruction begins
One week after course begins	Last day to enter a course or change from audit to credit/credit to audit
One week after course begins	Last day to withdraw with no record of course registration on transcript
20	Registration—JR, SR
30	Instruction begins—JR

### JULY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

1	Orientation/OCM course begins—JR
4	Independence Day recess
8	Last day to obtain financial clearance
One week before end of course	Last day to withdraw with a W grade or to submit S/U petition
24–AUG 30	Second five-week summer session
29	Clerkships begin—JR, SR

### AUGUST

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

1–2	Registration and orientation—FR
5	Instruction begins—FR
30	Summer Quarter ends



# The Calendar

## 2002

### SEPTEMBER

S M T W T F S  
 1 2 3 4 5 6 7  
 8 9 10 11 12 13 14  
 15 16 17 18 19 20 21  
 22 23 24 25 26 27 28  
 29 30

2 Labor Day recess  
 3 Summer registration—SO  
 3 Orientation—SO  
 3 Instruction begins—SO  
 3-20 Registration for Autumn Quarter—FR, SO, JR, SR  
 3-20 **POST-SUMMER SESSION 2002**  
 3 Instruction begins  
 9-13 Midterm examinations—FR  
 19 LLU Fall faculty colloquium  
 23-DEC 13 **AUTUMN QUARTER 2002**  
 23 Last day to obtain financial clearance and to complete  
 registration without a late fee  
 23-27 Faculty/Student retreat—SM

### OCTOBER

S M T W T F S  
 1 2 3 4 5  
 6 7 8 9 10 11 12  
 13 14 15 16 17 18 19  
 20 21 22 23 24 25 26  
 27 28 29 30 31

2 Last day to enter a course or change from audit  
 to credit/credit to audit  
 3 Campus/Chamber of Commerce Connection  
 7-11 Fall Week of Devotion  
 7 Diversity new student orientation  
 8 Last day to withdraw with no record of course  
 registration on transcript  
 9 Center for Christian Bioethics grand rounds  
 14-18 Midterm examinations—SO  
 16 ALAS chapel  
 18 Examinations—JR  
 21-25 Midterm examinations—FR  
 23 University Convocation

### NOVEMBER

S M T W T F S  
 1 2  
 3 4 5 6 7 8 9  
 10 11 12 13 14 15 16  
 17 18 19 20 21 22 23  
 24 25 26 27 28 29 30

13 Center for Christian Bioethics grand rounds  
 15-16 Annual BALL/BHPSA student retreat  
 25 Last day to withdraw with a W grade or  
 to submit S/U petition  
 27-29 Thanksgiving recess—FR, SO

### DECEMBER

S M T W T F S  
 1 2 3 4 5 6 7  
 8 9 10 11 12 13 14  
 15 16 17 18 19 20 21  
 22 23 24 25 26 27 28  
 29 30 31

2 Instruction resumes  
 2-20 Registration for Winter Quarter—LLU  
 4 Center for Christian Bioethics grand rounds  
 5-13 Final examinations—FR, SO  
 9-13 Final examinations—LLU  
 13 Autumn Quarter ends  
 13-30 Christmas recess—JR, SR  
 13-JAN 3 Christmas recess—FR, SO  
 16-JAN 3 Christmas recess—LLU  
 17 Grades due from faculty  
 30 Instruction begins—JR, SR

# The Calendar

## 2003

### JANUARY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

6-MAR 21	<b>WINTER QUARTER 2003</b>
6	Instruction begins—LLU
6	Instruction begins—FR, SO
6	Last day to obtain financial clearance—LLU
8	Center for Christian Bioethics grand rounds
13-18	Mission Emphasis Week
14	Last day to enter a course or change from audit to credit/credit to audit
15	Martin Luther King, Jr., Day Symposium for Diversity in Health Care
20	Martin Luther King, Jr., Day recess—FR, SO
21	Last day to withdraw with no record of course registration on transcript
21-24	Student Week of Spiritual Emphasis
24	Final examinations—JR

### FEBRUARY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

1-28	Black History month
3- 7	Midterm examinations—FR
10-14	Midterm examinations—SO
12	Center for Christian Bioethics grand rounds
14	Family day and FR Dedication
17	Presidents' Day recess

### MARCH

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

1	Registration for Spring Quarter—SM
1	Provonsha lecture
2- 3	Annual Bioethics/Spiritual Life Conference
3-MAR 28	Registration for Spring Quarter—LLU
3	Last day to withdraw with a W grade or to submit S/U petition
5	Center for Christian Bioethics grand rounds
5- 6	15 <sup>th</sup> Annual Cardiology Symposium
7-10	Annual Postgraduate Convention (APC)—SM
11-13	Alumni "Healthy People" Convention—SPH
17-21	Final examinations—LLU
17-21	Final examinations—FR, SO
21	Winter Quarter ends
24-28	Spring break—LLU
TBA	JR match seminar
TBA	SR match seminar
25	Grades due from faculty
31	Last day to obtain financial clearance and to complete registration without a late fee
31-JUN 13	<b>SPRING QUARTER 2003</b>
31	Instruction begins—LLU
31	Instruction begins—FR, SO

# The Calendar

## 2003

### APRIL

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

7-11	Spring Week of Devotion
8	Last day to enter a course or change from audit to credit/credit to audit
9	Center for Christian Bioethics grand rounds
11	ALAS student retreat
15	Last day to withdraw with no record of course registration on transcript
18	Examinations—JR
21-25	Midterm examinations—SO
28-MAY 2	Midterm examinations—FR

### MAY

S	M	T	W	T	F	S
			1	2	3	
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

14	Center for Christian Bioethics grand rounds
17	Diversity Consecration service
19-23	Final examinations—SO
23	Hooding ceremony
24	Baccalaureate service
25	Conferring of Degrees
26-30	NBME subject examinations, and basic science comprehensive examination—SO
26	Memorial Day recess
27	Last day to withdraw with a W grade or to submit S/U petition
28-JUN 20	Registration for summer sessions—LLU

### JUNE

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

6	Spring Quarter ends
9-13	Final examinations—LLU
9-16	Final examinations—FR
16-20	NBME subject examinations—FR
23-SEP 5	<b>SUMMER SESSIONS 2003—LLU</b>
17	Grades due from faculty
23-JUL 29	First five-week summer session
23-SEP 5	Eleven-week summer session
30	Instruction begins—JR

### JULY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

2	OCM—JR
28	Clerkships—JR, SR
30-SEP 5	Second five-week summer session



# II

## THE SCHOOL OF MEDICINE

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**T**hank you for your interest in Loma Linda University School of Medicine. This BULLETIN will provide you with detailed information about our people, programs, and facilities; as well as our requirements and expectations.

Medical education remains our number-one priority. The School offers quality programs in medical education for medical students, combined-degrees students, house staff, alumni, and professional peers within a system of demonstrated Christian values and beliefs. Our faculty are committed to ensuring that those we educate will develop the skills and intellectual curiosity needed for success as life-long learners in a changing world.

We welcome your interest.



Brian S. Bull, M.D.

*Brian S. Bull M.D.*

Dean, School of Medicine

# School Foundations

## HISTORY

**T**he professional curriculum in medicine, usually requiring four academic years of study and experience in a university and hospital setting, was first offered at Loma Linda University in 1909. Nine decades later, the events since 1909 seem blurred by the rapidity of change that institutions of higher learning experience in an effort to keep pace with the growth of knowledge.

## SINCE 1909

**T**he first two years of medicine were always taught on the Loma Linda campus. From 1913 to the mid-1960s the third and fourth years were taught at what is now White Memorial Medical Center (the first part of which was built in 1918) and at nearby Los Angeles County Hospital (now Los Angeles County/USC Medical Center). Construction of Loma Linda University Medical Center (inclusive of clinical, teaching, and research facilities) allowed the entire four-year curriculum to be offered on and near the Loma Linda campus, beginning with school year 1966-67. The Medical Center was occupied in July 1967.



# Our Mission

**T**he mission of the School of Medicine is to continue the healing and teaching ministry of Jesus Christ, “To make man whole” (Luke 9:6).

## PREPARING THE PHYSICIAN

**O**ur overriding purpose is to foster the formation of Christian physicians, providing whole-person care to individuals, families, and communities. Fulfilling this responsibility requires:

### EDUCATION

Creating an environment in which medical students, graduate students, and residents will acquire the knowledge, skills, values, and attitudes appropriate to Christian health professionals and scholars.

### RESEARCH

Cultivating a creative environment for inquiry and discovery of new routes to wholeness through basic and clinical research.

### SERVICE

Providing timely access to cost-effective, comprehensive, whole-person care for all patients, regardless of their circumstances or status.

### DEVELOPING THE WHOLE PERSON

Affirming the Christian view of wholeness—which recognizes that the needs of patients go beyond the healing of the body, and that the development of students involves more than the training of the mind; promoting physical, intellectual, social, and spiritual growth in our faculty and our students; and transforming our daily activities into personal ministries.

### REACHING THE WORLD

Providing whole-person care wherever the opportunity arises; participating with the world community in the provision of local medical education; providing international physicians and scientists the opportunities for professional interaction and enrichment; sharing the good news of a loving God as demonstrated by the life and teachings of Jesus Christ—these are the goals of the students, faculty, and graduates of the School of Medicine.



# Admissions Information

## THE STUDY OF MEDICINE

Preparation for the practice of medicine begins early in life and early in the student's schooling. The greater the aptitudes for and interests in learning widely and appreciatively in the major areas of knowledge—the natural sciences, the humanities, the behavioral sciences—the more able and versatile the student is likely to become.

In selecting students, the Admissions Committee of the School of Medicine looks for applicants who are best suited to fulfill the mission of the School and to successfully practice medicine. The School desires students who demonstrate ability to learn independently, to think critically, and to articulate clearly—both orally and in written form—their ideas and opinions. It is important that students in the School of Medicine demonstrate excellent interpersonal skills and show evidence of sensitivity to the needs of humanity.

The Admissions Committee of the School of Medicine puts forth considerable effort to ensure that an applicant is qualified for medical school. The applicant's credentials are reviewed to assess scholastic performance. The committee also looks for prerequisite qualities of character and personality, potential for self-direction and the use of discriminating judgment, and dedication to the ideal of service to society.

## GENERAL ENTRANCE INFORMATION

A total of 85 semester (128 quarter) units of credit from an accredited college is required for acceptance by the School of Medicine. Preference is given, however, to college graduates. Credit must be presented for the following subjects:

	SEM./QTR.	HRS.
General biology or zoology, with laboratory		8/12
General or inorganic chemistry, with laboratory		8/12
Organic chemistry, with laboratory		8/12
Physics, with laboratory		8/12
English, equivalent to satisfy baccalaureate degree requirement		
Religion, as required by the college attended		

### Required:

Keyboard and computer skills

### Recommended:

Introductory course in basic statistics

Biochemistry, strongly recommended

Science credits earned in professional schools (e.g., allied health professions, business, dentistry, nursing, or pharmacy) do not fulfill requirements for admission to medicine.

CLEP and Pass/Fail performances are not acceptable for the required courses.

The Medical College Admission Test (MCAT) is required. Scores older than three years will not be considered.

## APPLICATION PROCEDURE AND ACCEPTANCE

It is important to know the specifics of the application process and to begin the application process well in advance of the date of anticipated (or desired) entrance to medical school.

### Where to write

The School of Medicine is a member of the American Medical College Application Service (AMCAS). Applications must be submitted through AMCAS. Their application is available on the web at <[www.aamc.org/students/amcas/application.htm](http://www.aamc.org/students/amcas/application.htm)>.

**Deadline**

Application should be made directly to AMCAS between June 1 and November 1 for entry in August of the following year.

**Fees**

The AMCAS fee is required each time an application is submitted. An additional fee to the School of Medicine is required with each supplementary application.

**Procedure**

The application procedure is as follows:

1. The applicant submits a formal application to AMCAS, with fee and requested transcripts. The applicant's evaluated data are forwarded to the School of Medicine by AMCAS.
2. When the application is received from AMCAS, Loma Linda University School of Medicine requests completion of a supplementary application and reference forms. The prospective student should provide evidence of exposure to health care through personal involvement, or in other ways confirming the applicant's decision to become a physician.
3. After the supplementary application and letters of reference have been submitted and reviewed, the applicant may be invited for an interview.
4. The information submitted by the applicant through AMCAS, the supplementary application, the letters of reference, and the interview reports are then evaluated by the Admissions Committee of the School of Medicine. This committee determines whether an applicant is accepted or rejected. All applicants are notified of the final decision of the Admissions Committee regarding their application. Acceptance notices are sent to regular applicants beginning December of the year preceding admission to the School of Medicine, continuing until the class is filled.
5. The accepted applicant sends a written acceptance of his/her offer of admission as a student, together with a \$100 acceptance deposit, by the announced date (about thirty days after the notification of acceptance). This deposit is refundable until May 15 of the year in which the student has been accepted for entry.

In summary, the Admissions Office requests the following:

- Loma Linda University School of Medicine secondary application and \$75.00 application fee.
- Appraisal of the applicant's character, ability, and suitability for a medical career by persons knowledgeable about the applicant's past performance.

- A preprofessional recommendation packet, if available, from the applicant's undergraduate college/university.
- Applicant's availability for interviews.

**Incoming transcripts**

Transcripts that convey the grades and credits earned in each subject at all universities and/or colleges attended are required of all accepted students. Official transcripts should be in the Office of the Dean at the time of registration.

**Immunizations**

New students are required to have immunizations against certain infectious diseases. Forms for a student's personal physician to use in documenting the completion of immunization requirements will be sent from the Office of Admissions to accepted students. A student must give evidence in the form of physician records or college health-service records for the items listed below before registration for the first academic quarter. A student without proper verification will be required to receive the immunizations at the time of registration, and the charges will be billed to the student's account.

**Tetanus:** Must be current within 10 years.

**Hepatitis B:** Immunization is required for all students. This includes three immunizations—given at 0, 1 month, and 6 months. Unless the student provides verification of a completed schedule, this immunization sequence will be initiated at the time of matriculation. This sequence may be completed at the University Student Health Service if it was begun elsewhere.

**Varicella (chicken pox):** Students who have not had chicken pox will need to provide proof of a positive titer or of a completed series of two vaccinations.

**Measles, mumps, rubella (MMR):** Immunizations current after 1980 are required.

**Annual skin test:** A tuberculosis skin test is required for all students and will be performed at matriculation and yearly thereafter.

Failure to complete the preceding requirements on the schedule specified by the School of Medicine and/or the University Student Health Service will result in the student not being allowed to register for the following quarter or (if the health of patients or others may be compromised) in immediate removal from classes or clerkships.

For further information, consult the *Student Handbook*, Section V—Communicable Disease Transmission Prevention Policy.

**Pre-entrance health requirement and health insurance**

Students must meet the immunization requirements as stated. In addition, students are expected to have routine dental and medical care and elective surgery attended to before registering for medical school.

All School of Medicine students are provided with a health insurance policy through the University's Department of Risk Management. This policy remains in effect for students who are regularly enrolled, provided they register and pay tuition and fees on time each quarter. Since the maximum benefit of the policy (as of the time this bulletin went to press) is \$100,000 and does not cover preexisting illnesses or dental or optical care, students are encouraged to maintain a personal, current policy that covers preexisting illnesses and/or has a higher benefit. A student who does not have health insurance coverage for his/her spouse/children will need to purchase it through the University's Department of Risk Management at the time of registration. Government regulations prohibit the use of student loan funds to provide medical insurance or services for a student's spouse or children.

Students who wish to review a copy of the current student health plan or have further questions about the plan should call Risk Management (909/558-4386). Annual tuition also covers the cost of disability insurance. Details will be presented during orientation or upon request.

#### Accommodations for students with disabilities

Federal and state laws and Loma Linda University policies require the School of Medicine to provide students who have disabilities, and who are able to meet the technical standards of the School of Medicine, reasonable accommodation in its academic programs to the extent that such accommodations do not fundamentally alter the required curriculum or create an undue burden. It is the responsibility of the student with a disability to request an accommodation in writing, and to provide to the School of Medicine Accommodations Committee adequate documentation of the nature and extent of the disability, before an accommodation can be granted. Accepted students who plan to apply for an accommodation for any type of disability must request from the School of Medicine Office of Student Affairs a copy of the School's guidelines for assessment and documentation of the disability. More complete guidelines are available in the *LLU Student Handbook* (Section V—University policies: Disability accommodation policy). The student may also consult the University's dean of student affairs. Requests for accommodation must be accompanied by documentation that meets these guidelines. Contact the School of Medicine Office of Student Affairs (909/558-4630) for additional information.

#### EARLY-DECISION PROGRAM

A highly qualified applicant to medical school may apply between June 1 and August 1 and be guaranteed a decision by October 1. During that period of time, the applicant may not apply to any other medical school; and if s/he is accepted at Loma Linda University, s/he is committed to

that decision. If the applicant is not accepted by October 1, s/he may apply to any school s/he wishes. Those not accepted by October 1 will be considered in the regular applicant pool. On the AMCAS application the applicant indicates that s/he is an early-decision applicant and agrees to comply with the constraints of that program.

#### DEADLINES

June 1 to November 1 (of the year preceding the year of admission to the School of Medicine) is the period for submission of applications for the first-year class.

August 1 (of the year preceding the year of admission) is the deadline for submission of application under the Early-Decision Program.

September 1 (of the year preceding the year of admission) is the deadline for the submission of credentials for the Early-Decision Program.

November 15 (of the year preceding the year of admission) is the deadline for receipt of all supporting credentials for the regular applicant pool.

May 15 (of the year of admission) is the date beyond which the deposit of \$100 is not refundable.

#### TRANSFER

Under exceptional circumstances, the School accepts applicants into the junior year who are transferring from other U.S. medical schools. Such transfers must be for compelling circumstances and are subject to availability of space and approval of the Loma Linda University School of Medicine Dean's Administrative Committee.

The University reserves the right to require of an applicant satisfactory completion of written or practical examinations in any course for which transfer credit is requested. Successful completion of USMLE Step I is required.

#### MEDICAL SCIENTIST PROGRAM

Students interested in the Medical Scientist Program are required to take the Graduate Record Examination and must apply to the Graduate School of Loma Linda University as well as to the School of Medicine. The Graduate School application fee will be waived if combined-degrees applications are received prior to November 1.

#### VETERANS

A student eligible for veteran's benefits under the current enactment should transfer records to the:
   
Veterans Administration Regional Office
   
11000 Wilshire Boulevard
   
Los Angeles, CA 90024.

The student should also notify the Office of Admissions and Records.

# Curriculum

**T**he curriculum in medicine consists of four academic years. Instruction is on the quarter system. The first six quarters are oriented to the sciences basic to the practice of medicine; the remaining two academic years are made up of clinically oriented core instruction and up to eighteen weeks of clinical electives.

THE FRESHMAN YEAR consists of the study of anatomy/embryology, biochemistry/molecular biology/genetics, cell structure and function, understanding your patient, fundamental principles of physical diagnosis, evidence-based medicine and information sciences, and neuroscience.

THE SOPHOMORE YEAR includes microbiology, pharmacology, physiology, and organ-systems pathology. Both pathophysiology and applied physical diagnosis provide the transition between the basic and clinical sciences. Course work in psychopathology builds upon the first-year content.

THE JUNIOR YEAR is fifty-two weeks in length and focuses on internal medicine, pediatrics, gynecology and obstetrics, family medicine, psychiatry, surgery, medical ethics, and orientation to clinical medicine. Didactic work is integrated with ward and clinical assignments.

THE SENIOR YEAR is forty weeks in length. Required clinical clerkships include subinternships in internal medicine or surgery or family medicine or pediatrics; intensive care/emergency medicine, ambulatory care, and neurology; and up to eighteen weeks of electives.

## WHOLE-PERSON FORMATION

**P**ersonal and professional growth for the student in medicine is the focus of the disciplines in the School, the faculty in the School of Medicine, and the Faculty of Religion. Courses and content are offered to emphasize biblical, ethical, and relational aspects of the practice of medicine. The core for Whole-Person Formation—ten quarter hours of religion and ethics—is provided during the first two years of the medicine curriculum.



## CURRICULUM OUTLINE (2001-2002)

Year 1			
1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Gross Anatomy You and Your Patient; Information Science and Population-Based Medicine			
	Medical Neuroscience Physical Diagnosis		
Cell Structure and Function Medical Applications of the Basic Sciences Medical Biochemistry/Molecular Biology/Genetics Religion			
Year 2			
Microbiology Psychopathology			
Physiology			
Applied Physical Diagnosis	Pathophysiology and Applied Physical Diagnosis Pharmacology		
Pathology Religion			
Year 3			
Clinical Clerkships (required)			
Surgery (12 weeks)	Medicine (12 weeks)	Pediatrics (8 weeks)	Obstetrics/Gynecology (6 weeks)
Family Medicine (4 weeks)	Psychiatry (6 weeks)	Orientation to Clinical Medicine (4 weeks)	
Year 4			
Clinical Clerkships (required)			
Intensive Care/Emergency Medicine (2 weeks)		Ambulatory Care (4 weeks)	
Neurology (4 weeks)	Electives (20-26 weeks)	Subinternships: Internal Medicine or Surgery or Pediatrics or Family Medicine (4 weeks)	

**CURRICULUM OUTLINE (Effective school year 2002-2003)**

<b>Year 1</b>			
1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Gross Anatomy You and Your Patient; Evidence-based Medicine and Information Science			
	Medical Neuroscience Physical Diagnosis		
Cell Structure and Function Medical Applications of the Basic Sciences Medical Biochemistry/Molecular Biology/Genetics Religion			
<b>Year 2</b>			
Microbiology Psychopathology			
Physiology			
	Pathophysiology and Applied Physical Diagnosis Pharmacology		
Pathology Religion			
<b>Year 3</b>			
Clinical Clerkships (required)			
Surgery (12 weeks)	Medicine (12 weeks)	Pediatrics (8 weeks)	Obstetrics/Gynecology (6 weeks)
Family Medicine (4 weeks)	Psychiatry (6 weeks)	Orientation to Clinical Medicine (4 weeks)	
<b>Year 4</b>			
Clinical Clerkships (required)			
<b>Intensive Care/Emergency Medicine</b> (2 weeks)		<b>Ambulatory Care</b> (4 weeks)	
Neurology (4 weeks)	Electives (20-26 weeks)	Subinternships: Internal Medicine or Surgery or Pediatrics or Family Medicine (4 weeks)	

## CLOCK-HOUR DISTRIBUTION

	FRESHMAN	SOPHOMORE	JUNIOR	SENIOR	TOTAL
Anatomy/Embryology	101	—	—	—	101
Cell Structure and Function	120	—	—	—	120
Evidence-Based Medicine and Information Sciences	60	—	—	—	60
Emergency Medicine	—	—	—	120	120
Family Medicine	—	—	240	240	480
Gynecology and Obstetrics	—	—	360	—	360
Intensive Care	—	—	—	120	120
Medical Biochemistry/Molecular Biology/Genetics	111	—	—	—	111
Medical Neuroscience	71	—	—	—	71
Medicine	—	—	720	240	960
Microbiology	—	94	—	—	94
Neurology	—	—	—	240	240
Orientation to Clinical Medicine	—	—	240	—	240
Pathophysiology and Applied Physical Diagnosis	—	78	—	—	78
Pathology	—	190	—	—	190
Pediatrics	—	—	480	—	480
Pharmacology	—	86	—	—	86
Physical Diagnosis	116	—	—	—	116
Physical Medicine and Rehabilitation	—	—	**	—	—
Physiology	—	120	—	—	120
Psychiatry	41	52	360	—	453
Surgery**	—	—	720	240	960
Anesthesiology/Critical Care			*	*	
Neurosurgery			*	*	
Ophthalmology			*	*	
Orthopaedics			*	*	
Otolaryngology			*	*	
Urology			*	*	
Religion and Ethics	66	44	22	—	132
Elective	—	—	—	1200	1200
<b>TOTAL</b>	<b>686</b>	<b>664</b>	<b>3142</b>	<b>2400</b>	<b>6892</b>

\*part of surgery rotation

\*\*integrated with clerkship training

### Course numbers

Ordinarily, course numbers reflect the year in which the courses are taken.

#### Undergraduate:

101-199 freshman  
201-299 sophomore  
301-399 junior  
401-499 senior

#### Postbaccalaureate:

701-749 freshman  
751-799 sophomore  
801-849 junior  
851-899 senior



## CONJOINT COURSES

**MDCJ 501 Introduction to Medicine SM (2)**

Taught by the Department of Medicine and the Faculty of Religion for students in the Early-Decision Program. Designed to help students develop the writing and reading skills essential to perform medical duties, and to help students develop the whole-person-care focus necessary for success as a physician.

**MDCJ 502 Introduction to Medicine II (2)**

Taught by the Faculty of Religion and by the Departments of Biochemistry, Medicine, Pathology and Human Anatomy (Anatomy Division), and Surgery. Designed to help students in the Early-Decision Program develop skills in problem-based learning, standardized patient assessment, and whole-person care—skills that are necessary for success as physicians.

**MDCJ 513 Cell Biology (SM) (2.5)****MDCJ 514 Immunology SM (27 hours) (2.5)**

Medical immunology, with emphasis on the cellular, humoral, and molecular components of the immune system. Immune responses associated with host defense and disease processes. Immunologic techniques related to the practice of other basic and clinical sciences.

Cross-listing: MDCJ 543; MICR 520.

**MDCJ 521, 522, 523 Physical Diagnosis (110 hours) (8, 4, 4)**

Provides a core foundation of knowledge, skills, values, and attitudes necessary for effective physician-patient communication and physical examination.

**MDCJ 524, 525, 526 Pathophysiology and Applied Physical Diagnosis (\_\_, 5, 4)**

Two parallel components that bridge the preclinical curriculum to the clinical curriculum:

- (1) Pathophysiology lectures build upon the courses in organ pathology and physiology, introduce students to the pathophysiologic principles underlying mechanisms of disease, and emphasize application of these principles to a variety of new situations that require problem solving and synthesis in a clinical context.
- (2) Practical experience develops and applies skills that build on the first-year sequence in physical diagnosis.

Prerequisite: MDCJ 522, 523.

**MDCJ 531, 532, 533 Cell Structure and Function (150 hours) (5, 4, 4)**

Fully integrated, comprehensive course that develops knowledge and skills relating normal microscopic and submicroscopic anatomy to cellular biology, cellular physiology, and immunology. General pathology—the common thread for the course—familiarizes students with morphologic and functional changes affecting cells exposed to a variety of normal and, to a lesser extent, abnormal environments.

**MDCJ 535, 536, 537 Medical Biochemistry, Molecular Biology, and Genetics (110 hours) (4, 3, 3)**

Foundation courses—in conjunction with MDCJ 531, 533—for study of normal biology in the first-year curriculum. Comprehensive sequence in biochemistry and molecular biology establishes the biochemical basis for cell structure, emphasizes an integrated approach to the understanding of cellular metabolism, provides a biochemical/genetic/molecular basis for understanding disease, and examines the mechanisms for genetic information flow in prokaryotic and eukaryotic cells.

**MDCJ 541, 542 Medical Neuroscience SM (71 hours) (4, 4)**

Fundamentals of neuroanatomy and neurophysiology integrated in a clinical context with principles of the human nervous system.

**MDCJ 550, 551, 552, Evidence-Based Medicine and Information Sciences (3, 2, 2)**

Designed for freshman medical students. Introduces basic concepts of evidence-based medicine to help facilitate lifelong, self-directed learning. Describes the challenges of the information needs of the 21st-century physician. Teaches a process by which students can efficiently and effectively acquire the answers to their clinical questions and apply them to the care of the patients they see. Teaching methodologies include large-group didactic presentations; small-group discussions; and self-study, on-line exercises. Sets the foundation for an ongoing, lifelong learning process. (Replaces MDCJ 545, 546, 547 effective August 5, 2002.)

**MDCJ 599 Medicine Conjoint Directed Study (arranged)****MDCJ 701 Orientation to Clinical Medicine (240 hours)**

Builds on the second-year course MDCJ 525, 526 Pathophysiology and Applied Physical Diagnosis. Provides the knowledge, skills, values, and attitudes necessary to facilitate a smooth transition from the preclinical to the clinical curriculum.

**MDCJ 821 Ambulatory Care Clerkship (240 hours)**

Interdisciplinary, four-week rotation designed to broaden exposure to community-based health care done mainly in primary-care clinics. Clinical experience in areas not otherwise covered in the curriculum: dermatology and STDs, clinical preventive medicine, and integrative/whole-person care in ambulatory and managed-care settings.

**MDCJ 891 Whole-Person Care (7.2)****MDCJ 899 Practice of Medicine (1.8-3.6)**

## DEPARTMENT COURSES

Please refer to the departmental listings, arranged alphabetically.

## COMBINED-GRADUATE-DEGREES PROGRAMS

Loma Linda University is committed to fostering the investigative skills of its medical students. Students interested in pursuing careers in academic medicine and medical research may wish to enroll in one of the combined-degrees programs.

**Medical Scientist Program**

The Medical Scientist Program is designed to develop a student's independence and competence as an investigative scientist and clinician. It provides students with a broad educational base for the practice of medicine and medically related research. The program is administered jointly by the School of Medicine and the Graduate School. During the first three years of the program, students follow an integrated curriculum that includes



medical courses, graduate education, and research training.

In the first year the curriculum includes a course sequence—taught by an interdisciplinary faculty—that integrates aspects of biochemistry, molecular genetics, molecular biology, cell physiology, and cell ultrastructure into a rigorous survey of cellular biology. Clinical information is added to this framework during weekly correlative sessions. During subsequent years, formal courses continue to broaden and integrate into a meaningful whole an understanding of the clinical consequences of cellular events.

Beginning in the fourth year and continuing for two or more years, students pursue full-time research on a project of their own design within the graduate programs of human anatomy, biochemistry, microbiology and molecular genetics, or physiology and pharmacology. Research training within these programs is available in nationally recognized research laboratories in the School of Medicine. After completing the Ph.D. degree, students return to the medical curriculum for the two years of clinical training required to obtain the Doctor of Medicine degree.

For acceptance into the Medical Scientist Program, graduation from an accredited college is required. Students must simultaneously submit applications to the School of Medicine and the Graduate School. Scores on the general test of the Graduate Record Examination are required. The Department of Biochemistry requires and the Department of Physiology and Pharmacology recommends a basic course in calculus and two quarters of physical chemistry. Students who have completed at least 8 units in biochemistry may qualify for reduced biochemistry course work in the Medical Scientist Program.

For information regarding tuition waivers and scholarships, contact the director of the Medical Scientist Program.

#### **M.D./Ph.D. or M.D./M.S. combined degrees**

The M.D./Ph.D. Combined-Degrees Program is jointly sponsored by the School of Medicine and the Graduate School and includes many of the features of the Medical Scientist Program. Students in the combined degrees program complete the first two years of the standard medical curriculum before beginning graduate studies or research training. This is followed by three or more years of graduate course work and research to qualify for a Ph.D. degree, or at least one year for an M.S. degree, before commencing the last two years of the medical school curriculum—the clinical training—for the Doctor of Medicine degree. Majors are offered in anatomy, biochemistry, microbiology and molecular genetics, and physiology and pharmacology.

For the M.D./Ph.D. and M.D./M.S. Combined Degrees Programs, the prerequisites and Graduate Record Examination requirements are similar to those described for the Medical Scientist Program. Biochemistry is not required.

## **RESIDENCY PROGRAMS**

Loma Linda University Medical Center and Lother hospitals affiliated with Loma Linda University School of Medicine provide a variety of graduate medical-education programs. These include residencies in anesthesiology, combined medicine/pediatrics, dermatology, emergency medicine, family practice, internal medicine, neurology, neurological surgery, obstetrics and gynecology, occupational medicine, ophthalmology, oral surgery, orthopaedic surgery, otolaryngology, pathology, pediatrics, physical medicine/rehabilitation, plastic surgery, preventive medicine, psychiatry, radiation oncology, diagnostic radiology, general surgery, thoracic surgery, urology, and general vascular surgery.

Subspecialty residencies are offered in cardiovascular disease, gastroenterology, rheumatology, pulmonary disease/critical care medicine, neonatal-perinatal medicine, orthopaedics (hand surgery), pediatric anesthesiology, pediatric critical care medicine, pediatric emergency medicine, vascular/interventional radiology, neuroradiology, pediatric radiology, emergency medicine/pediatrics, pain-management anesthesiology, and child neurology.

Graduate physicians wishing to apply for entrance into these programs should apply directly to the director of the specialty program.

Graduate dentists who seek residencies in dental anesthesia, endodontics, oral implantology, orthodontics, pediatric dentistry, periodontics, and prosthodontics should apply directly to the School of Dentistry.

## **CONTINUING MEDICAL EDUCATION**

Recognizing the imperative of life-long learning for professionals, the School of Medicine supports a program of continuing medical education for physicians beyond their formal postgraduate years. The Office of Continuing Medical Education is accredited by the Accreditation Council for Continuing Medical Education to provide Category I continuing medical-education credit for physicians. Course offerings include weekly, bi-weekly and monthly School of Medicine departmental grand rounds and a large number of one-day and multi-day conferences and workshops that are presented locally and nationally for School of Medicine faculty, alumni, and practicing physicians within the geographic area in which the conferences are presented.

For more information please write to:  
Thomas Zirkle, M.D., Assistant Dean for  
Continuing Medical Education  
Loma Linda University Medical Center, Room A505  
Loma Linda, CA 92350;  
or telephone (909) 558-4963.

# Clinical Facilities

**C**linical instruction takes place primarily at Loma Linda University Medical Center, which includes Loma Linda University Children's Hospital; and at Loma Linda University Community Hospital, Faculty Medical Offices (FMO), Jerry L. Pettis Memorial Veterans Medical Center, Riverside County Regional Medical Center, and Loma Linda University Behavioral Medicine Center. Also utilized are San Bernardino County General Hospital, Kaiser Foundation Hospital, Glendale Adventist Medical Center, and White Memorial Medical Center.

## THE INSTRUCTIONAL RESOURCES

### Loma Linda University Medical Center

The Medical Center is a major teaching center serving San Bernardino and Riverside counties. In addition to its large population of referred patients, the Medical Center is also the Level 1 trauma center for the region and is the tertiary-care center for high-risk obstetrics and neonatal intensive care. A new extension houses the Loma Linda Cancer Center and the Proton Treatment Center for cancer therapy. All patients in the Medical Center are available for medical student, resident, and fellowship training.

### Loma Linda University Children's Hospital

The Children's Hospital provides a single, centralized location where newborns, infants, and children can receive comprehensive medical care. Being seen at a comprehensive center for children's health care assures parents and their children that all aspects of the child's health will be closely monitored and understood. Loma Linda University Children's Hospital staff—pediatric nurses, physicians, surgeons, anesthesiologists, radiologists, and other professionals—work together to assure that every patient receives the highest possible quality of medical attention.

The organization of a children's hospital also means that the hospital's staff is chosen from among people who are specially trained and have a deep interest in children's health care. Every Children's Hospital employee is highly skilled in dealing with children and has made the care of children a personal priority. The Children's Hospital is the place for little faces.

### Loma Linda University Community Hospital

The Community Hospital is a teaching resource for medical students in family medicine and internal medicine as well as house staff in family medicine and general pediatrics.

### Faculty Medical Offices (FMO)

The FMO includes facilities for all specialties, an outpatient surgery suite that handles

approximately 30 percent of all the surgery done at the Medical Center, and an urgent-care center. The FMO is utilized for students' outpatient experience in nearly all specialties.

### Jerry L. Pettis Memorial Veterans Medical Center

This medical center serves a wide geographic area and cares for a large population of veterans. Outpatient clinics and inpatient wards are available for student and resident teaching. The residency programs are integrated with the University Medical Center and are under the supervision of the faculty of the School of Medicine. The Dean's Committee helps to coordinate the patient care and teaching activities of the veterans medical center.

### Riverside County Regional Medical Center

The medical center is located twenty miles south of Loma Linda in the city of Riverside. The patient population reflects an inner-city profile with a large concentration of urgent medical and surgical, trauma, obstetrics, and pediatrics cases. All patients are available for student, resident, and fellowship training.

### Loma Linda University Behavioral Medicine Center

This freestanding, full-service psychiatric hospital opened in early 1991. Loma Linda University Behavioral Medicine Center offers adult, child, adolescent, and chemical-dependency services, including inpatient and partial hospitalization. There is special emphasis on services that provide the integration of Christian faith with psychiatric care for those patients desiring such. This expansion of clinical services greatly enhances the teaching of medical students and residents as well as the clinical research potential.

### Other facilities

Also utilized are San Bernardino County General Hospital, Kaiser Foundation Hospitals, Glendale Adventist Medical Center, and White Memorial Medical Center.

# Research Centers

**B**asic science investigation is advanced and patient treatment is enhanced through the ground-breaking research conducted at the four centers of the School of Medicine.

## CENTER FOR MOLECULAR BIOLOGY AND GENE THERAPY

The Center for Molecular Biology and Gene Therapy conducts basic science research and training in the field of cellular and molecular genetics within the context of a Christian health-sciences university. The goals of the center are to:

- Establish and maintain an active research program in the field of cellular and molecular genetics.
- Conduct basic science scholarly research that provides a foundation for molecular medicine at this University.
- Apply molecular-genetic basic science research to the development of cellular and genetic therapies for treatment of neurological disorders as well as diseases such as cancer.
- Develop and promote courses to train faculty and students at this University in cellular and molecular-genetic technologies.

The center's core facility, the DNA laboratory, provides services to the University research community—such as DNA sequencing and oligo nucleotide synthesis (synthesizing small DNA fragments or small genes); and uses real-time PCR equipment to measure DNA and RNA in small amounts and to amplify levels in tissue or cell samples.

## MUSCULOSKELETAL DISEASE CENTER

The Musculoskeletal Disease Center (MDC) pursues research in molecular medicine, including gene therapy and molecular genetics, as its primary approach to diseases of the musculoskeletal system. The gene therapy research involves local and systemic therapy for musculoskeletal diseases, particularly osteoporosis. The Osteoporosis Research Clinic, which is a part of the MDC, offers state-of-the-art x-ray imaging for bone-density scans; and conducts clinical research studies in numerous areas other than osteoporosis.

Areas of research interest relevant to the MDC include:

- Signal transduction mechanisms involved in mediating the effects of mechanical strain to culminate in increased bone formation.
- Molecular mechanism of action of anabolic agents—including fluoride, a bone-cell mitogen.
- Role of the IGF system in the pathogenesis of bone loss and hip fracture.
- Identification of and functional studies of genes involved in the musculoskeletal system.

Medical students and postdoctoral fellows from around the world receive training in the MDC laboratories, and participate, often with honors, at local and national basic research and clinical research meetings. They are given many opportunities for collaboration with other research laboratories, nationally and internationally.

### NEUROSURGERY CENTER FOR RESEARCH, TRAINING, AND EDUCATION

The Neurosurgery Center for Research, Training, and Education pursues ways to improve patient care. Its primary goals are to develop new biologically and technologically advanced, minimally invasive surgical techniques and instrumentation, in collaboration with the general, plastic, urological, cardiothoracic, and neurosurgical services; to facilitate training in new techniques, such as endoscopic surgery; and to stimulate research in all surgical fields, with emphasis on neurosurgical procedures. The director and associate director of the center hold numerous international and United States patents on surgical instruments and surgical assistive devices they have invented. The center provides:

- Research and training resources for education in general surgery and neurosurgery, as well as CME approval of preceptorships for medical students, surgical residents, faculty, outside physicians, and national and international visiting scholars on sabbatical (although the center's educational directives are intended primarily for surgical residents who are in a formal curriculum).
- Opportunities for surgical training on *ex vivo* models, then laboratory animals.
- A curriculum for training in laparoscopic surgery.
- Instrumentation and laboratories for endoscopic experience.
- CME-approved training in sutureless vascular anastomosis techniques.

- A computerized data bank for an international study of vascular accesses performed with nonpenetrating clips—a study involving medical students and the School of Public Health Biostatistics Service.
- A video network connecting LLU operating rooms with other institutions that are a part of the Center of Excellence Program.

### CENTER FOR PERINATAL BIOLOGY

The primary research focus of the Center for Perinatal Biology is investigation of fetal and neonatal biology and physiology. The majority of the funding to support this research is derived from competitive grants awarded by the National Institutes of Health; additional funding is provided by the National Science Foundation, the American Heart Association, the March of Dimes Birth Defects Foundation, and other agencies.

The biomedical scientists in this internationally renowned research center also teach basic science courses in the School of Medicine and graduate courses in their disciplines: physiology/pharmacology, gynecology/obstetrics, pathology/human anatomy, biochemistry/microbiology, and pediatrics.

For the graduate students, postdoctoral fellows, and beginning investigators—who spend from two-to-four years in research and training in fields related to developmental physiology—the center is an ideal environment. Visiting scholars from other universities also work in the center during sabbaticals or other interims.



# Student Life

## STUDENT LIFE

The information on student life contained in this BULLETIN is brief. The *Student Handbook* more comprehensively addresses University and School expectations, regulations, and policies; and is made available to each registered student and to prospective students who request a copy in writing from the School of Medicine, Office of the Associate Dean for Student Affairs. Students are expected to familiarize themselves with the contents of the *Student Handbook* and to abide by its policies. Additional information regarding policies specific to a particular school or program within the University is available from the respective school.

## FROM UNIVERSITY TO STUDENT

Loma Linda University was established to provide education in a distinctively Christian environment. Students are expected to respect the standards and ideals of the Seventh-day Adventist church. Application to and enrollment in the University constitute the student's commitment to honor and abide by the academic and social practices and regulations stated in announcements, bulletins, handbooks, and other printed materials; and to maintain a manner that is mature and compatible with the University's function as an institution of higher learning.

## STUDENT CONDUCT

It is inevitable that the student will come under question if:

- his/her academic performance is below standard;
- s/he neglects other student duties;
- his/her social conduct is unbecoming; or
- his/her attitudes demonstrate deficiencies such as poor judgment, moral inadequacy, or other forms of immaturity.

Procedures for evaluation of student academic and nonacademic performance—as well as for the student to initiate grievance procedures and/or to exercise his/her right of appeal—are described in each school's section of the *Student Handbook*.

Prospective students who have questions concerning the University's expectations should seek specific information prior to enrollment.

**WHOLE-PERSON HEALTH**

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

- cosmopolitan, in that the University’s global mission seeks to promote 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 toward balanced development.

Students from all schools of Loma Linda University have the opportunity to participate in a variety of programs designed to foster social, intellectual, physical, emotional, and spiritual wellness. These programs support Loma Linda University’s motto, “To make man whole.” 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.

Religion classes that focus on such subjects as “The Art of Integrative Patient Care,” “Biomedical Ethics,” and “God and Human Suffering”—as well as a weekly chapel service—are part of the required curriculum.

Loma Linda University also offers opportunities for students to complement their formal learning through participation in a wide variety of activities that 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.

Situated within easy access of the ocean, mountains, and desert, the University provides numerous opportunities for social and cultural activities. A variety of University-, School-, and group-sponsored events encourage students to relax and become better acquainted with one another.

The University encourages physical fitness by providing courses in field exercises, body building, and health instruction. An effort is made to interest each student in some recreational and health-building activity that may be carried over to enhance future life.

**SPIRITUAL HEALTH**

Opportunities for personal development and spiritual enrichment are provided in scheduled 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).

**SOCIAL HEALTH**

Situated within easy access of the ocean, mountains, and desert, the University provides numerous opportunities for social and recreational activities. A variety of University-, School-, and group-sponsored events encourage students to relax and become better acquainted with one another.

**TEACHING LEARNING CENTER**

Academic life at this University is rigorous, and inefficient study skills can add to the stress and strain. The Teaching Learning Center works with students to develop the reading, writing, analytical, and study skills needed to succeed in professional education. The center offers three ABLÉ programs that will help students face academic challenges by:

- A**ssessing learning style and augmenting reading skills.
- B**reaking through in reading speed and comprehension.
- L**earning analytical and memory techniques and skills.
- E**nhancing ability to take tests and examinations.

If a student is having scholastic difficulties, the center will assess the student and tailor a program designed to increase and/or improve his/her reading speed and comprehension, writing clarity, analytical abilities, and other study skills—using the student’s own course materials.

The center is located on campus in West Hall, Room B112. There is no charge to the student for assessment and evaluation. The regular student tuition package does not include the TLC tuition. For additional information, please call 909/558-8625.

**UNIVERSITY STUDENT/FAMILY COUNSELING CENTER**

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.

**STUDENT ASSISTANCE PROGRAM**

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. LLSAP

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. LLSAP clinicians will not release information without the written consent of the student, with the exception of matters that fall under mandatory reporting laws.

LLSAP, 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 telephone—66050; off-campus—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. LLSAP is located at:

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

## PHYSICAL HEALTH

The University promotes physical fitness by encouraging recreational interests and by providing courses in field exercises, body building, and health instruction. An effort is made to interest each student in some recreational and health-building activity that may be carried over to enhance future life.

## THE DRAYSON CENTER

The Drayson Center, the University's recreation and wellness center, is a state-of-the-art fitness facility.

The center includes a 21,000-square-foot multipurpose gymnasium, which may accommodate three full-size basketball courts or five volleyball courts or nine badminton courts. Circling the gymnasium's inside perimeter is a three-lane, elevated, rubberized running track. The facility also includes five racquetball courts with viewing areas, and fully equipped men's and women's locker rooms. Aerobics studios and cardiovascular and fitness areas are equipped for strength training, sports conditioning, body building, and power lifting. A large, ten-lane lap pool is designed to accommodate scuba diving classes. A 22-foot-high, 150-foot water slide ends in the nearby recreational pool. This shallow pool is wheelchair accessible. An outdoor jacuzzi is also available as well as indoor saunas in the men's and women's locker rooms. Included in the complex are a lighted, six-court tennis facility; a 400,000-square-foot multi-use recreational area with four softball fields; a half-mile-long track; and picnic and game areas.

The Drayson Center offers lifetime leisure classes (noncredit), such as low- and high-impact aerobics, scuba diving, tennis, weight training, and wilderness survival. Physical assessments are also available.

## THE STUDENT HEALTH PLAN

Because the health, vitality, and welfare of its students and their dependents are of major concern to the University, Loma Linda University sponsors and funds the Student Health Plan, a health care plan that provides health service and medical coverage to all eligible students. It includes the following benefits: Student Health Service, 24-hour coverage, and generous coverage through preferred providers. The Student Health Plan provides a broad range of medical coverage but does not provide dental or vision coverage.

### Student Health Service

Professional services are rendered by the Student Health Service, which provides basic care to students. The Student Health Service is located in the Center for Health Promotion in Evans Hall, corner of Stewart and Anderson Streets. The hours are 8 A.M.-5 P.M. Monday through Thursday and 8 A.M.-2 P.M. on Friday. Services are free to students.

### Supplementary medical-coverage policy

The Student Health Plan is an "excess" policy and only supplements other medical plans that provide benefits to the student. The student first obtains direct-provider payment, or reimbursement for out-of-pocket payments, from all other medical plans that provide benefits for the student; only then does the student submit bills to the Student Health Plan for any remaining balance not covered by the other plans. The student must, therefore, follow all rules of his/her primary insurance in obtaining medical treatment. The student should contact the primary carrier to determine what procedure to follow.

### Eligibility

The Student Health Plan automatically covers all full-time students at Loma Linda University in any clinical or academic program. Students are covered when enrolled for 7 units or more per quarter (or clock-hour equivalent, as defined by each School) for which Loma Linda University is receiving tuition and applicable fees (excluding load validation, "in progress" [IP] units, "employee tuition benefit" units, and "audit" units). Students enrolled for field practicum are eligible for coverage if registered for at least 240 hours per quarter.

### Coverage during clinicals / rotations

Students who are accidentally injured while performing their clinical rotation duties do not have to pay their co-payment. If a covered student is doing a school-sponsored clinical or rotation out of the area and becomes ill or injured, any health service and medical care received which is covered by the Student Health Plan will still be covered as if the student were in the Loma Linda area.

### Effective coverage date

An eligible student's coverage becomes effective on the day of orientation or the first day of class. Any purchased benefits will become effective on the day the Department of Risk Management receives the health plan application and

payment within the open enrollment period, which is only the first two weeks of each calendar quarter.

#### **Buy-in provision only during open enrollment**

Eligible students are themselves automatically covered by the plan; however, noneligible students—those on summer break and part-time students (e.g., in a clinical program but enrolled for fewer than 7 paid units)—may, if they wish, purchase coverage.

Those wishing to buy in may enroll in the Student Health Plan only during the first two weeks of each new calendar quarter, that is, during the first two weeks of January, April, July, and October.

For further information about eligibility, the student may refer to the *Student Health Plan* booklet or call Risk Management.

#### **Buy-in rates per quarter**

For current quarterly buy-in rules, please contact the Department of Risk Management.

#### **Student responsibility for payment**

Neither Student Finance nor the Department of Risk Management bills the student's account or sends out reminders. Funds received for buy-in coverage must be in the form of a check or money order (payable to the Department of Risk Management).

#### **Coverage exclusion for "pre-existing" condition**

If a student or patient has not maintained a continuous "creditable coverage" under another health plan during the twelve months prior to the coverage effective date, the following pre-existing-condition exclusion will apply:

This plan will not cover any medical condition, illness, or injury for which medical advice, diagnosis, care, or treatment was recommended or received by the student or patient during the six months prior to the effective date of health plan coverage. This exclusion will apply for twelve months from the student's coverage effective date, unless such an individual remains treatment free during the six-month term beginning with the effective date of coverage. If the individual remains treatment free during the six-month term, the pre-existing-condition exclusion will apply only during that six-month period. This exclusion will not apply to pregnancy-related medical expenses or to medical treatment for a newborn or adopted child. For additional information, the student may contact Risk Management.

#### **Preferred-provider plan, prescriptions, annual term, benefit limits**

The Student Health Plan is a PPO preferred-provider plan. A list of preferred physicians and preferred medical facilities is available from Risk Management.

Benefits are limited by the terms and conditions set forth in the *Student Health Plan* booklet. The booklet is available from the Loma Linda University Department of Risk Management. For additional health plan information, phone the Department of Risk Management at 909/558-4386.

## **MALPRACTICE COVERAGE**

Students are covered by malpractice coverage while acting within the course and scope of any approved clinical assignment.

## **DISABILITY INSURANCE PLAN**

All School of Medicine students are automatically enrolled in a disability insurance program while registered in the School. This program provides limited disability insurance for students while in the program and also allows for conversion to an individual disability insurance policy at the time of graduation. Details of this program are available in the School of Medicine Office of the Assistant Dean for Administrative Affairs.

## **GOVERNING PRACTICES**

### **Residence hall**

The School is coeducational and accepts both single and married students. Any single student who prefers to live on campus may do so.

Students are expected to live on campus unless they are:

- married,
- twenty-one years of age or older,
- in a graduate program, or
- living with their parents.

Students who wish to live off campus but who do not meet one of the foregoing requirements may petition the dean of students for an exception. This should be done well in advance of registration to allow the student adequate time to plan. Additional information about campus housing can be obtained from the University's dean of students.

The student must keep the assistant dean for administrative affairs informed of his or her current address and telephone number and other contact numbers.

### **Marriage**

A student who marries or changes marital status during the academic year must give the Office of the Dean advance written notice in order to keep the School's records correct and up to date.

### **Personal appearance**

Students in the classroom or clinical environment must exhibit personal grooming consistent with expectations of the health care institution, the profession, the School, and the University. Specific guidelines are provided by the School.

### **Personal property**

The School assumes no responsibility for the loss of the student's personal property, instruments, or other items by theft, fire, or unknown causes. The student is expected to assume responsibility for the safekeeping of personal belongings.

### **Cars and transportation**

Students are responsible for transportation arrangements and costs for off-campus assignments



and clinical affiliations. All vehicles used to transport fellow students for off-campus assignments must be registered with Campus Security and must have adequate public liability insurance—a minimum of \$100,000 bodily injury and property damage liability.

#### Student identification card

All students will be assigned University ID numbers and issued student ID cards. The University student ID card will be used for library, health, and other services.

In some cases, students are also required to have Medical Center ID badges. Information regarding this requirement can be obtained from the Office of the Dean of the School.

#### Substance abuse

As a practical application of its motto, “to make man whole,” Loma Linda University is committed to providing a learning environment conducive to the fullest possible human development. Because the University holds that a lifestyle free of alcohol, tobacco, and recreational/illegal drugs is essential for achieving this goal, it maintains policies that foster a campus environment free of these substances. All students are expected to refrain from substance abuse while enrolled at the University. Substance abuse is considered to be any use of tobacco, alcohol, and other recreational or illegal drugs; any use of a nonprescription mood-altering substance that impairs the appropriate functioning of the student; or any misuse of a prescription or nonprescription drug. Also, possession of an illegal drug may be cause for dismissal. The School offers counseling and other redemptive programs to assist in the recovery from substance abuse. Continuation as a student with the University will be dependent upon the abuser appropriately utilizing these programs. Failure to comply with these policies will result in discipline up to and including expulsion and, if appropriate, notification of law-enforcement agencies for prosecution.

For details regarding the LLU drug-free environment—as well as information regarding prevention, detection, assessment, treatment and relapse prevention, confidentiality, and discipline—see the Loma Linda University *Student Handbook 2002*, Section V, University Policies: Alcohol, controlled substances, and tobacco policy.

#### Sexual harassment

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 designated, trained sexual harassment ombudspersons.

A more comprehensive statement of the policy regarding sexual harassment can be found in the University *Student Handbook*.

#### Dismissal, grievance

Students who are involved in dismissal proceedings or who wish to file a grievance are referred to the grievance procedure as outlined—

1. in the *Student Life* section of this BULLETIN (see STUDENT CONDUCT); and
2. in the School section of the *Student Handbook*.

#### Employment

It is recommended that students refrain from assuming work obligations that divert time, attention, and strength from the arduous task of training in their chosen career. A student wishing to work during the school year may petition for permission from the Office of the Dean. The decision of the Office of the Dean regarding such an employment request will be based on grades, class load, health, and School policy.

#### Weekend assignment

From the day of enrollment in the School of Medicine, students are considered to be junior colleagues in the medical profession. They are an integral part of the treatment team. Becoming a physician includes learning to accept responsibility for one's patients 24 hours a day, 7 days a week, 365 days a year—except when alternatives for coverage have been arranged. In order to meet patients' needs and as part of the educational program, students may be required to provide care for their patients on Sabbath.

## STUDENT ORGANIZATIONS

The purpose of Loma Linda University School of Medicine student organizations is to:

- encourage high Christian ideals among medical students.
- involve medical students in developing and furthering their education.
- enhance involvement in and loyalty to Loma Linda University.
- unite medical students to seek constructive solutions to problems.
- foster leadership among medical students.

At registration into the School of Medicine, students automatically become members of the School of Medicine Student Association. Other student organizations that operate within the School of Medicine and that are represented on the School of Medicine Senate include the following:

The American Medical Association—Medical Student Section (AMA-MSS), Loma Linda University Chapter

The American Medical Student Association (AMSA), Loma Linda University Chapter

The Christian Medical and Dental Society (CMDS)

The Organization of Student Representatives (OSR) to the AAMC

Women in Medicine/American Medical Women's Association (AMWA), Student Chapter

**AMSA**

Membership in the School of Medicine's local chapter of the American Medical Student Association is open to all students in the School.

**AWARDS**

**Wil Alexander Whole-Person Care Award**

This monetary award is given to two senior medical students who have demonstrated to their peers and colleagues during their clinical years a growing excellence in the physical, mental, emotional, relational, and spiritual care of their patients as part of the art of medical practice.

**Alpha Omega Alpha**

Students are recommended for membership in the national honor medical society, Alpha Omega Alpha. This honor is extended to students in the fourth year. Membership is determined based on scholastic, professional, and personal performance. The School of Medicine was granted a charter April 1, 1957, for establishing the Epsilon Chapter.

**American Medical Women's Association**

This award is presented based on demonstrated professional competence and promise of professional achievement.

**Chinnock Award**

The Robert F. Chinnock Award is presented at the end of the senior year to a student who has been outstanding in clinical and academic pediatrics.

**Comstock Award**

The Comstock Award is given annually to the senior student with the most distinguished performance in internal medicine. Selection is based on scholarship, science interest and skill, devotion to patient care, and personal attributes of dependability and integrity as demonstrated by the physician for whom the award is named, Daniel D. Comstock.

**Griggs Award**

The Griggs Award is presented annually to a senior student selected for meritorious scholarship and service reflecting those qualities demonstrated by the physician and teacher for whom the award is named, Donald E. Griggs.

**Hinshaw Award**

The Hinshaw Award, named for David B. Hinshaw, Sr., is presented annually to a senior student who has demonstrated outstanding qualities of leadership and scholarship.

**Hoxie Award**

The Hoxie Award is presented annually by the Department of Medicine to a senior student whose meritorious scholarship and service reflect those qualities demonstrated by the physician and teacher for whom the award is named, Harold J. Hoxie.

**Benjamin Kovitz Award**

This award is presented to a senior medical student who has demonstrated qualities of leadership and scholarship in the field of psychiatry.

**Walter P. Ordelheide Award**

The Ordelheide Award is given annually to a senior student who has demonstrated outstanding scholarship and leadership, and who has fostered the promotion and advancement of family medicine.

**Chancellor's Award**

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

**Harold F. Ziprick Award**

This award is presented annually by the Department of Gynecology and Obstetrics to a senior student in recognition of overall academic achievement and clinical performance in gynecology and obstetrics, as demonstrated by the physician and teacher for whom the award is named.



# Academic Practices and General Regulations

**L**oma Linda University School of Medicine was established to provide education of future physicians in an atmosphere in which basic Christian values are honored. The rigorous academic expectations of the institution are consistent with the example of personal excellence embodied in the Christian tradition. Although no religious test is applied, students are expected to respect the standards and ideals of this church-related University. Application to and enrollment in the University constitute the student's commitment to honor and abide by the academic, nonacademic, and social practices, policies, and regulations of the University. These policies are found in BULLETINS, handbooks, announcements, and other published materials. In addition, students are expected to display conduct that is mature and compatible with the University's function as an institution of higher learning and the University's sponsorship by the Seventh-day Adventist church.

The academic progress of each student is monitored by the Academic Review Committee. Specific policies for handling misconduct (academic or nonacademic) are published in the *Student Handbook*.

## GENERAL POLICIES

### Registration

The student must register on or prior to the date designated by the School of Medicine. Registration procedure includes recording information on forms furnished by the Office of University Records, clearing financial arrangements with Student Finance (including all past accounts), completing requirements of the Student Health Service, and having a student-identification picture taken.

Late registration is permissible only in case of compelling reason, and a charge is made if registration is completed after the designated dates. The student shall not attend classes without being registered.

### Classification

The student who has satisfied all prerequisites and who is registered for a standard curriculum leading to a degree or certificate is classified as a regular student of the University. The student who is permitted to remove qualitative or quantitative deficiencies in order to qualify or requalify for regular standing is classified as a provisional student during the transition period. Because of limitations of space and personnel resources, the

School of Medicine does not make provision for students to enroll as special, unclassified, or audit students.

### Attendance

Regular attendance is expected beginning with the first day of each term and is inclusive of all instructional appointments and assemblies. Negligence relative to appointments may be referred to the Office of the Dean for consideration and action.

### Chapel

Attendance is required of all freshman and sophomore medical students at the Wednesday morning chapel, as specified in the *Student Handbook*.

### Communications

Communications to the medical student regarding academic and clinical assignments, scholarship opportunities, and other important information are routed through the Office of the Dean. The student mailboxes and bulletin board are in the School's administrative area, located in the Medical Center. It is the responsibility of students to check their email and mailboxes and the bulletin board daily.

**REQUIRED SUPPLIES****Microscope**

The student is expected to have access to a satisfactory compound microscope (usually one rented from the School) that meets the following requirements:

- The microscope shall be no older than fifteen years.
- The lenses shall be in good condition and shall include scanning and oil-immersion objectives.
- The equipment shall include an Abbe condenser with rack and pinion adjustment, an iris diaphragm, and a mechanical stage.

**Textbooks**

Students are required to purchase the textbooks adopted by the School of Medicine Curriculum Committee.

**Instruments**

Students are required to purchase the instruments adopted by the Physical Diagnosis course.

**PRACTICES AND REGULATIONS****Length of academic residence**

To fulfill the degree requirement pertaining to length of academic residence, it is the usual policy that the student must be registered for full-time course work during the entire junior and senior academic years for the Doctor of Medicine degree.

**Course exemptions**

Students who seek exemption from registering for courses that they took prior to entering the School of Medicine must qualify for the exemption by passing a comprehensive examination covering the course material in question.

Should the student qualify, in lieu of the regular course the student will be required to participate in an advanced program that may include additional studies, research activities, and/or teaching. A written paper will be required from all students completing the advanced program.

The course director, the Office of Educational Affairs, and the student will work together to determine the content of the advanced program. Full tuition, equivalent to that of the regular program, will be charged.

**Examinations**

Students must take examinations at the scheduled time. Students who arrive more than 15 minutes late to an examination—or after another student has left during the examination for any reason—will be denied the opportunity to take the examination.

Should a student miss an examination because of an excused absence, the examination cannot be made up at a later time. Instead, the comprehensive final examination in the course for which the missed examination occurred will be

weighted an amount extra, proportional to the weighting of the missed examination(s). In addition, course directors may require other remediation at their discretion.

In order to have an excused absence, the student must obtain a written excuse from the Office of the Dean prior to the administration of the test in question. This written excuse must then be provided to the course director. Students missing examinations for health reasons must provide documentation from Student Health that they were indeed ill. Whether or not this documentation is an adequate excuse for missing an examination will be left to the discretion of the Office of the Dean.

Students who miss examinations without prior approval from the Office of the Dean have an unexcused absence. As a result, the student will receive a zero for the missed examination(s).

In the event of a bona fide emergency, where prior approval is not feasible, the Office of the Dean must be contacted as soon as possible. Failure to do so will result in an unexcused absence.

**Grading policy**

Course directors submit grades at the end of the course, indicating the overall evaluation of the student's performance in the course. The grade reflects the success or failure of the student in meeting the objectives of the course in terms of knowledge, skills, attitudes, and values. The grade will be recorded as SATISFACTORY if the student exceeded the minimum requirements for overall performance. The grade assigned will be UNSATISFACTORY if the student did not meet the minimum requirements for overall performance. The grade assigned will be MARGINAL PASS if the student met but did not exceed the minimum requirements for overall performance.

Complete promotion and retention policies are distributed to each class at orientation.

**Class standing**

Class standing is developed by the Office of the Dean and is based on student performance on in-house, faculty-generated examinations and NBME subject examinations.

**Promotion**

Promotion is contingent on satisfactory academic performance. Both cognitive and noncognitive evaluations of academic performance—as well as assessment of personal suitability to assume the responsibilities of the medical profession—are utilized in making promotion decisions. The Academic Review Committee of the School of Medicine periodically reviews student performance and progress and recommends promotion, retention, or dismissal on the basis of the overall academic record. The *Student Handbook* contains additional details regarding the criteria used by the Academic Review Committee for promotion decisions.

**Withdrawal**

To withdraw from a course(s), the student must complete a Change of Program form; to completely withdraw from school, a Total Withdrawal form must be completed. These forms should be completed and submitted on the last day of class attendance. The date of withdrawal used in calculating tuition refunds will be the date on which the properly completed form is submitted to the Office of University Records.

**USMLE Steps I and II policy**

States vary in the number of times a student can attempt USMLE examinations and still be eligible for licensure. A significant number of states allow no more than three attempts. The school has defined its own limits for number of attempts allowed. Our policy requires students enrolled in the Loma Linda University School of Medicine to pass Step I in no more than three tries.

Students must complete the clinical course work required for graduation within three years of starting the clinical curriculum; they are permitted a maximum of four sequential attempts to pass Step II of the USMLE. The student's first attempt at passing Step II of the USMLE must take place only after s/he has satisfactorily passed all junior clerkships and prior to his/her completion of all required senior clinical course work.

A student who has failed Step II but who has completed all course curriculum requirements must remain enrolled in the School of Medicine as a directed-study student until s/he either has passed Step II of the USMLE or failed Step II of the USMLE for the fourth time. During this directed study, the student will be charged tuition.

**LICENSING EXAMINATIONS****National**

The graduate who holds credentials from the USMLE may be granted a license by endorsement of the examining board of most states. Additional requirements made by some states are given in a pamphlet that may be obtained from the Office of the Dean or from the Federation of State Medical Boards, 400 Fuller Wisser Road, Suite 300, Euless, TX 76039-3855.

**DOCTOR OF MEDICINE DEGREE**

The School of Medicine requires that a candidate must have met the following requirements for the Doctor of Medicine degree:

- Completed all requirements for admission.
- Attended an accredited medical school for four academic years, the last two of which must have been spent at this School.
- Completed honorably all requirements of the curriculum, including specified attendance, level of scholarship, length of academic residence, and credit units.
- Completed additional special examinations covering any or all subjects of the medical curriculum as may be required.
- Successfully completed USMLE examinations (Steps I and II), as specified.
- 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 School.
- Discharged financial obligations to the University.

The candidate is required to participate in graduation exercises upon completion of the academic program. If the candidate is out of sequence with his/her current class but would like to participate in the commencement exercises, s/he must have completed a minimum of three months of the required senior clerkships, i.e., medicine, surgery, family medicine, neurology, ambulatory care, and intensive care/emergency medicine by April 1 of the year of graduation. Consent for the student to be absent, granted by the chancellor of the University, is contingent on the recommendation of the dean to the chancellor.

The families and friends of graduates are invited to be present at the official Conferring of Degrees service.

**POSTGRADUATE TRAINING**

In harmony with the needs of medicine today, the curriculum leading to the Doctor of Medicine degree is planned with the assumption that all students will take standard postgraduate training in one of the fields of medicine. This means serving as a resident for a minimum of three years in a hospital approved for this training by the Council of Medical Education and Hospitals of the American Medical Association.

The Office of the Dean supplies information and assistance for the arrangement of residencies. Since the School participates in the National Residency Matching Program, selection through this means constitutes approval by the School of Medicine.

# Financial Information

## GENERAL PRACTICES

**T**he student is expected to arrange for financial resources to cover his/her expenses before the beginning of each year. Tuition is due and payable in full before or at the time of initial registration each academic quarter and at the subsequent posted dates. After acceptance into the School, the first quarter's tuition deposit is due at registration and must be paid in cash or financial aid awards. In subsequent quarters, failure to apply for financial aid at least thirty days in advance of registration day will result in a \$50 late-payment fee in addition to any interest due.

## FINANCIAL POLICIES

### Advance payment and refunds

Tuition and fees are payable in full at the beginning of each term. For refund-policy information, consult Student Finance.

Students who have their loans (e.g., Stafford) pending (not yet received) at the time of registration and who have not applied for these at least thirty days prior to registration or have not paid the balance due at registration will be assessed a \$50 late-payment fee.

### Monthly statement

The amount of the monthly statement is due and payable in full within thirty days after presentation. An account that is more than thirty days past due is subject to a service charge of .833 percent per month (10 percent per year). Failure to pay scheduled charges or make proper arrangements, which is reported to the dean, may cause the student to be discontinued.

### Financial clearance

The student is expected to keep a clear financial status at all times. Financial clearance must be obtained each term; before receiving a certificate or diploma; or before requesting a transcript, statement of completion, or other certification to be issued to any person, organization, or professional board. To obtain financial clearance from the Student Finance Office, the student must have a zero (0) balance due on account.

In order for a student who is enrolled for less than half time to obtain financial clearance, s/he must be current on all loan account payments and must have fully completed a loan exit interview.

### Checks

Checks should be made payable to Loma Linda University and should show the student's name and identification number to ensure that the correct account is credited. If a check is

returned, a \$20 returned-check fee will be assessed.

### Veteran's benefits

A student eligible to receive veteran's benefits under the current enactment should—

- contact the Office of University Records within the first week following registration, and
- have a certificate of eligibility sent to the Office of Admissions and Records at Loma Linda University.

In order for a medical student to be eligible to receive educational assistance from the Department of Veteran's Affairs, s/he must maintain a satisfactory grade for all required courses in the School of Medicine for the year that s/he is currently enrolled. If the student's grades reflect unsatisfactory progress, the student will not be certified for the Department of Veteran's Affairs educational benefits until his/her probationary status has been removed and s/he is certified to be in good and regular standing.

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. 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>>.

**SCHEDULE OF CHARGES****2000-2001****TUITION**

\$29,250	Full time, 2001-2002
\$30,400	Full time, 2002-2003
\$7,315	Full time, per quarter, 2001-2002
\$7,600	Full time, per quarter, 2002-2003

**FEES**

\$110	Graduation fee, seniors
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**SUPPLIES AND INSTRUMENTS (estimated)**

\$2,000	Per calendar year
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**LIVING EXPENSES (estimated)**

\$12,485	Off-campus student living with parent or relative, per school calendar year 2001-2002
\$12,485	Off-campus student living with parent or relative, per school calendar year 2002-2003
\$11,460	Dormitory student, per calendar year 2001-2002
\$11,460	Dormitory student, per calendar year 2002-2003
\$12,485	Community student providing own housing, per calendar year, 2001-2002
\$12,485	Community student providing own housing, per calendar year, 2002-2003

**SPECIAL CHARGES**

\$75	Supplemental application (non-refundable), in addition to AMCAS fee
\$100	Acceptance deposit
\$50	Late-payment fee
\$10	Late financial charge (beginning second week after published registration date)
cost	Health care items not covered by health fee or insurance
cost	Library fine or loss, parking fine, property breakage or loss
cost	Health coverage for spouse and family
\$50	Late registration (beginning first day after published registration date, plus \$3 per additional day)
\$20	Returned-check fee

**STUDENT FINANCIAL AID**

Student inquiries about loans from the University, private and federal government funds, and other financial aid matters may be made in writing to: Financial Aid Adviser, Office of Financial Aid, Loma Linda University, Loma Linda, CA 92350; or by telephone, (909) 558-4509 or (800) 422-4558. To be considered for University-based aid, the student must complete the graduate financial aid application available from the Office of Financial Aid. Priority deadline is April 15 for the following academic year.

**Sponsors**

Some students are sponsored by friends, relatives, or nonrelatives. In some cases the University disburses the funds, while in others the sponsors aid the students directly. Contact the aid adviser for more information.

**WICHE**

The University participates in the student exchange program of the Western Interstate Commission for Higher Education (WICHE). Eligibility requirements vary from state to state. The interested student should apply to his/her state's certifying officer for further information. The name and address of the certifying officer may be obtained from WICHE, University of Colorado, Boulder, CO 80302. Inquiry may also be made of the Office of Financial Aid. Application deadline is October 15 of the year preceding that for which admission is desired.

**SCHOLARSHIPS/FELLOWSHIPS****Military**

These support-for-service scholarships pay full tuition, required instruments, and other reasonable educational expenses; as well as provide a monthly stipend. For further information, contact the recruitment office of the army, navy, or air force at your earliest convenience.

**Medical scientist and combined-degrees fellowships**

The School of Medicine has a limited number of competitive fellowships for students in the Medical Scientist Program and in the Combined-Degrees Program. Information may be obtained by writing to the Medical Scientist Program director, Loma Linda University.

# III

## THE DEPARTMENTS

Anesthesiology

Biochemistry and Microbiology

Emergency Medicine

Family Medicine

Gynecology and Obstetrics

Medicine

Neurology

Ophthalmology

Orthopaedic Surgery

Pathology and Human Anatomy

Pediatrics

Physical Medicine and Rehabilitation

Physiology and Pharmacology

Psychiatry

Public Health and Preventive Medicine

Radiation Medicine

Radiology

Surgery



# The Departments

**T**he Departments of the School of Medicine strive to attain the University's overall objective—"To make man whole" physically, mentally, emotionally, and spiritually—through interaction between students and faculty in a caring, Christian atmosphere and through the various curricula that reveal belief in the efficacy of this objective.

The Loma Linda University School of Medicine curriculum is taught by approximately 600 full-time as well as part-time and voluntary faculty members in nineteen departments—three basic science departments; fourteen clinical departments; and two departments bridging basic sciences and clinical applications: pathology and human anatomy, as well as public health and preventive medicine.

The following pages will give a brief statement about each department as well as a listing of each department's various course offerings.

Information about the M.S. and Ph.D. degree programs in the basic science Departments of Biochemistry and Microbiology, Pathology and Human Anatomy, and Physiology and Pharmacology can be obtained from the department chair of the specific program. These various programs are outlined in the BULLETIN of the Graduate School.

## KEY TO CODES

Subject areas are indicated by code letters as follows.

ANAT	Human Anatomy
ANES	*Anesthesiology
BCHM	*Biochemistry [and Microbiology]
CMBL	Cell and Molecular Biology
DERM	Dermatology
EMDN	*Emergency Medicine
FMDN	*Family Medicine
GYOB	*Gynecology and Obstetrics
MDCJ	Conjoint
MEDN	*Medicine
MICR	Microbiology
NEUR	*Neurology
NEUS	Neurosurgery
OPHM	*Ophthalmology
ORTH	*Orthopaedic Surgery
OTOL	Otolaryngology
PATH	*Pathology [and Human Anatomy]
PEDS	*Pediatrics
PHRM	Pharmacology
PMRH	*Physical Medicine and Rehabilitation

PHSL	*Physiology [and Pharmacology]
PRVM	*Public Health and Preventive Medicine
PSYT	*Psychiatry
RADS	*Radiology
RDMN	*Radiation Medicine
SURG	*Surgery
UROL	Urology

\*Department [full name in brackets]

#Chair, cochair, or vice chair of department

Schools are indicated by code letters as follows:

AH	School of Allied Health Professions
FR	Faculty of Religion
GS	Graduate School
PH	School of Public Health
SD or DN	School of Dentistry

For convenience of reference, the departments of instruction are listed alphabetically in the following pages.

## ANESTHESIOLOGY

**BURTON A. BRIGGS, Acting Chair**

**ROBERT D. MARTIN, Vice Chair**

### DIVISIONS

#### CRITICAL CARE

GARY R. STIER, Head

#### PAIN CONTROL

LOWELL W. REYNOLDS, Head

The goals of the Department of Anesthesiology are to:

1. Provide necessary anesthesia, analgesia, pain control, and intensive care of the highest caliber and with Christian empathy to patients of Loma Linda University Medical Center and its affiliated facilities.
2. Educate medical students, dentists, and anesthesiology residents in the fields of anesthesia, critical care, and pain control.
3. Increase knowledge of the use of anesthetic and analgetic agents.

### FACULTY

#### DISTINGUISHED PROFESSOR

Bernard D. Briggs

#### PROFESSORS

Martin W. Allard  
Richard L. Applegate II  
Floyd S. Brauer  
Burton A. Briggs, PEDS, SURG  
Daniel J. Cole  
Wayne K. Jacobsen, PEDS  
Robert D. Martin  
Linda J. Mason, PEDS  
Randall M. Schell

#### EMERITUS CLINICAL PROFESSOR

Leslie Rendell-Baker

#### CLINICAL PROFESSORS

Roland C. Aloia, BCHM  
Bernard J. Brandstater  
Maureen H. Bull  
James A. Meyer

#### ASSOCIATE PROFESSORS

Donald Lynn Anderson  
Stanley D. Brauer

Monica M. Neumann  
Lowell W. Reynolds, PMRH  
Lori Shutter, NEUR  
Gary R. Stier  
Linda I. Wat

#### EMERITUS ASSOCIATE CLINICAL PROFESSOR

Denis F. Lobo

#### ASSOCIATE CLINICAL PROFESSOR

Allen L. Brandt

#### ASSISTANT PROFESSORS

Anne T. Cipta, PMRH  
Elizabeth Ghazal  
Erlinda Guzon-Castro  
Richard K. Hamamura  
Michelle Kim  
Penny Kimball-Jones  
Carol A. Lau, PEDS  
Deborah McIvor  
Phebe E. Mosaad  
Abdul R. Samady  
Michelle Schlunt  
Shirley Tan  
Teresa L. Thompson  
Sidney E. Torres  
Moheb S. Youssef

**ASSISTANT CLINICAL PROFESSORS**

Sherif A. Azer  
Deborah M. Chung  
Rebecca Patchin  
B. B. Roberson  
Victor J. Soloniuk  
Donald L. Stilson

**INSTRUCTOR**

Jothi Gangolly

**CLINICAL INSTRUCTOR**

Samuel Loh

**COURSES**

**SURG 821 Surgery Clerkship (100 hours participation)**

Didactic and clinical instruction in the principles of resuscitation and life support. Supervised administration of general and regional anesthesia. Eight seminars.

**ANES 891 Anesthesiology Elective (arranged)**

## BIOCHEMISTRY AND MICROBIOLOGY

LAWRENCE C. SOWERS, Chair

### DIVISIONS

#### BIOCHEMISTRY

PENELOPE J. DUERKSEN-HUGHES, Associate Chair

#### MICROBIOLOGY

JAMES D. KETTERING, Associate Chair

### BIOCHEMISTRY DIVISION

The primary objectives of the Division of Biochemistry are to:

1. Provide course work in biochemistry at levels appropriate for the various professional curricula.
2. Introduce students to applications of biochemistry that address problems in medicine, dentistry, nutrition, etc., so that they can understand the place of this discipline in each field.
3. Cooperate with colleagues in other areas at Loma Linda University, providing them with biochemical expertise to assist in their research projects or classroom instruction.
4. Offer a master's degree or Doctor of Philosophy degree in biochemistry to medical and dental professionals who have mastered biochemistry and demonstrated independent judgment and the skills essential to biomedical research. This course work can provide a foundation for the further academic training of some who will become biomedical educators of the future.
5. Conduct a high-quality graduate biochemistry program on a Seventh-day Adventist Christian campus for anyone who feels more comfortable in such an environment.
6. Conduct research in biochemistry that contributes to knowledge in biomedical sciences.

### FACULTY

#### DISTINGUISHED PROFESSOR

David J. Baylink, MEDN, ORTH

#### PROFESSORS

Richard E. Beltz  
Daila S. Gridley, MICR, RDMN  
George T. Javor, MICR  
Wolff M. Kirsch, NEUS  
John Leonora, #PHSL, MEDN  
William Langridge, MICR  
George M. Lessard  
Thomas A. Linkhart, PEDS  
W. Barton Rippon, GS  
John J. Rossi, MICR

Charles W. Slattery, PEDS  
Lawrence C. Sowers, MICR, MEDN  
Barry L. Taylor, MICR  
R. Bruce Wilcox  
Anthony J. Zuccarelli, MICR

#### CLINICAL PROFESSOR

Roland C. Aloia, ANES

#### RESEARCH PROFESSORS

John R. Farley, MEDN  
David A. Hessinger, PHSL, PHRM  
Kin-Hing W. Lau, MEDN  
Subburaman Mohan, MEDN, PHSL  
Donna D. Strong, MEDN, MICR  
Jon E. Wergedal, MEDN

**ASSOCIATE PROFESSORS**

Penelope J. Duerksen-Hughes  
E. Clifford Herrmann  
William J. Pearce, PHSL

**ASSOCIATE RESEARCH PROFESSORS**

Shin Tai Chen  
Richard W. Hubbard, PATH

**ASSISTANT RESEARCH PROFESSOR**

Satish M. Sood

**RESEARCH INSTRUCTOR**

Chiranjib Dasgupta

**COURSES****MDCJ 531, 532, 533 Cell Structure and Function SM (150 hours) (5, 4, 4)**

Fully integrated, comprehensive course that develops knowledge and skills relating normal microscopic and submicroscopic anatomy to cellular biology, cellular physiology, and immunology. General pathology—the common thread for the course—familiarizes students with morphologic and functional changes affecting cells exposed to a variety of normal and, to a lesser extent, abnormal environments.

**MDCJ 535, 536, 537 Medical Biochemistry, Molecular Biology, and Genetics (110 hours) (4, 3, 3)**

Foundation courses—in conjunction with MDCJ 531, 533—for study of normal biology in the first-year curriculum. Comprehensive sequence in biochemistry and molecular biology establishes the biochemical basis for cell structure, emphasizes an integrated approach to understanding cellular metabolism, provides a biochemical/genetic/molecular basis for understanding disease, and examines the mechanisms for genetic information flow in prokaryotic and eukaryotic cells.

**MDCJ 550, 551, 552 (3, 2, 2) Evidence-Based Medicine and Information Sciences**

Designed for freshman medical students. Introduces basic concepts of evidence-based medicine to help facilitate lifelong, self-directed learning. Describes the challenges of the information needs of the 21st-century physician. Teaches a process by which students can efficiently and effectively acquire the answers to their clinical questions and apply them to the care of the patients they see. Teaching methodologies include large-group didactic presentations; small-group discussions; and self-study, on-line exercises. Sets the foundation for an ongoing, lifelong learning process. (Replaces MDCJ 545, 546, 547 effective August 5, 2002.)

**BCHM 306 Introduction to Organic and Biochemistry (6)****BCHM 501 Biochemistry DN (5)****BCHM 504 Introduction to Biochemistry GS (5)****BCHM 505 Seminar in Biochemistry (1)****BCHM 506 Seminar Presentation in Biochemistry (1)****BCHM 507 Medical Biochemistry (7)****BCHM 507L Medical Applications of Biochemistry (2)****BCHM 508 Principles of Biochemistry (6)**

Chemistry of amino acids and proteins. Enzyme properties and mechanisms. Bioenergetics. Chemistry and metabolism of carbohydrates, lipids, amino acids, and nucleic acids. Protein biosynthesis and the control of gene expression. Special topics in physiological chemistry: connective tissue components, acid-base balance, hormones, vitamins and minerals.

**BCHM 509 Biochemistry of the Human Body DN (5)****BCHM 511 Medical Biochemistry (7)****BCHM 512 Medical Biochemistry (7)****BCHM 514 Medical Applications of Biochemistry (2)****BCHM 517 Clinical Studies in Medical Biochemistry (3-9)****BCHM 523 Introduction to Physical Biochemistry (3)**

Folding of globular and fibrous proteins, emphasizing the relationship between sequence, structure, and function. Biochemical thermodynamics and equilibria, with application to ligand/protein interaction. Multi-substrate enzyme kinetics. Enzyme mechanisms. Prerequisite: BCHM 508 or equivalent.

**BCHM 525 Metabolic Interrelationships and Control (5)**

Structure, function, and control of enzymes. Control of energy metabolism. Cellular mechanisms of hormone action.

**BCHM 527 Molecular Biology of the Cell (8)**

Identical to CMBL 502.  
Cross-listing: CMBL 502; MICR 539.  
Prerequisite: BCHM 508 or CMBL 501.

**BCHM 528 Principles of Molecular Biology and Genetics (5)****BCHM 534 Techniques of Biochemistry (5)**

Intensive, integrated laboratory experience in protein chemistry and the physical characterization of macromolecules. Writing scientific papers.

**BCHM 544 Advanced Topics in Biochemistry (arranged) (2-4)**

Examples: membrane biochemistry, transport and bioenergetics, physical methods in biochemistry, metabolic regulation, protein structure, hormonal regulation of metabolism.

Cross-listing: CMBL 538; BIOL 546; MICR 538.

**BCHM 551 Special Problems in Biochemistry (arranged)****BCHM 697 Research (arranged)****BCHM 698 Thesis (arranged)****BCHM 699 Dissertation (arranged)****BCHM 891 Biochemistry Elective (arranged)**

## MICROBIOLOGY DIVISION

The goals of the Division of Microbiology are to:

1. Enable medical, dental, and graduate students to develop an expertise in microbiology and infectious diseases.
2. Conduct and publish research in the field of microbiology.
3. Consult and participate professionally with all of the School's basic science and clinical departments.

## FACULTY

## EMERITUS PROFESSORS

Leonard R. Bullas  
Raymond E. Ryckman  
Edward D. Wagner

## PROFESSORS

Istvan Fodor  
Daila S. Gridley, RDMN, BCHM  
George T. Javor, BCHM  
James D. Kettering  
William Langridge, BCHM  
Benjamin H. S. Lau  
John E. Lewis, MEDN, PATH  
Yiming Li, SD  
Michael B. Lilly, MEDN  
Lawrence C. Sowers, BCHM, MEDN  
Barry L. Taylor, BCHM  
Anthony J. Zuccarelli, BCHM

## RESEARCH PROFESSOR

Donna D. Strong, MEDN, BCHM

## ASSOCIATE PROFESSORS

Alan P. Escher  
Lora M. Green, MEDN  
Hansel M. Fletcher  
Junichi Ryu

## ASSOCIATE RESEARCH PROFESSORS

Mark Johnson  
Giuseppe Molinaro, PATH, PEDS

## ASSISTANT PROFESSOR

Carlos A. Casiano, MEDN

## INSTRUCTOR

Sandra Hilliker

## ADJUNCT RESEARCH PROFESSOR

John J. Rossi, BCHM

## ADJUNCT ASSOCIATE RESEARCH PROFESSORS

Edouard Cantin  
Daniela Castanotto  
Ren Jang Lin

## ADJUNCT ASSISTANT RESEARCH PROFESSOR

Igor B. Jouline

## COURSES

## MEDICINE

**MICR 486 Diagnostic Medical Mycology (2-3)**

**MICR 503 Essentials of Immunology (2)**

**MICR 511 Medical Microbiology SM (7)**  
Systematic study of microorganisms of medical importance, pathogenic mechanisms, host-parasite relationships, and methods of identification.

**MICR 542 Applied Clinical Microbiology (3)**

**MICR 543 Cancer Biology and Immunology (2-3)**

**MICR 555 Microbial Genetics (3)**

**MICR 565 Virology (3)**

**MICR 568 Laboratory Techniques in Virology (3)**

**MICR 594 Medical Mycology**

**MICR 599 Directed Study (240 hours)**

**MICR 697 Research (1-8)**

**MICR 891 Microbiology Elective (arranged)**

**MDCJ 514 Immunology SM (27 hours) (2.5)**  
Medical immunology, with emphasis on the cellular, humoral, and molecular components of the immune system. Immune responses associated with host defense and disease processes. Immunologic techniques related to the practice of other basic and clinical sciences.

Cross-listing: MDCJ 543; MICR 520.

**MDCJ 531, 532, 533 Cell Structure and Function SM (150 hours) (5, 4, 4)**

Fully integrated, comprehensive course that develops knowledge and skills relating normal microscopic and submicroscopic anatomy to cellular biology, cellular physiology, and immunology. General pathology—the common thread for the course—familiarizes students with morphologic and functional changes affecting cells exposed to a variety of normal and, to a lesser extent, abnormal environments.

**MDCJ 535, 536, 537 Medical Biochemistry, Molecular Biology, and Genetics (110 hours) (4, 3, 3)**

Foundation courses—in conjunction with MDCJ 531, 533—for study of normal biology in the first-year curriculum. Comprehensive sequence in biochemistry and molecular biology establishes the biochemical basis for cell structure, emphasizes an integrated approach to the understanding of cellular metabolism, provides a biochemical/genetic/molecular basis for understanding disease, and examines the mechanisms for genetic information flow in prokaryotic and eukaryotic cells.

**MDCJ 550, 551, 552 (3, 2, 2) Evidence-Based Medicine and Information Sciences**

Designed for freshman medical students. Introduces basic concepts of evidence-based medicine to help facilitate lifelong, self-directed learning. Describes the challenges of the information needs of the 21st-century physician. Teaches a process by which students can efficiently and effectively acquire the answers to their clinical questions and apply them to the care of the patients they see. Teaching methodologies include large-group didactic presentations; small-group discussions; and self-study, on-line exercises. Sets the foundation for an ongoing, lifelong learning process. (Replaces MDCJ 545, 546, 547 effective August 5, 2002.)

**GRADUATE**

The following courses are offered in fulfillment of requirements for the Master of Science and the Doctor of Philosophy degrees in microbiology. This program is outlined in the BULLETIN of the Graduate School.

**MICR 501 Principles of Microbiology DN (3.5)**

Fundamental course for dentists, emphasizing the techniques and concepts of microbiology. Principles of infection and immunity. Systematic study of microorganisms pathogenic for man. Infectious diseases taught in cooperation with the Department of Oral Medicine. Emphasis on dental applications.

**MICR 515 Introduction to Bioinformatics and Genomics (2)****MICR 520 Basic Immunology (2.5)**

Introduction to medical immunology. Identical to MDCJ 514. Graduate students must register for this course.

**MICR 521 Medical Microbiology (8)**

Fundamental techniques and concepts of microbiology. Identical to MICR 511. Graduate students must register for this course.

**MICR 530 Immunology (3)**

Selected topics of modern immunology introduced to graduate students, with emphasis on understanding key paradigms. Identical to immunology section of CMBL 503.

Descriptions for the following courses are found in the Graduate School BULLETIN.

**MICR 533 Biological Membranes (3)****MICR 534 Microbial Physiology (3)****MICR 536 Laboratory in Gene Transfer and Gene Expression (4)****MICR 537 Selected Topics in Molecular Biology (2)****MICR 539 Molecular Biology of Prokaryotes and Eukaryotes (8)****MICR 545 Molecular Biology Techniques Laboratory (4)****MICR 546 Advanced Immunology (4)****MICR 565 Virology (3)****MICR 566 Cell Culture (3)****MICR 604 Seminar in Microbiology (1)****MICR 605 Colloquium (1)****MICR 606 Graduate Seminar (1)****MICR 624 Special Problems in Microbiology (2-4)****MICR 625 Independent Study in Microbiology Literature (2-4)****MICR 626 Special Topics in Microbiology (2-4)****MICR 634 Clinical Microbiology Practicum (4)****MICR 697 Research (1-5)****MICR 698 Thesis (1-3)****MICR 699 Dissertation (1-3)****CMBL 501 Steady State Cell (3-8)****CMBL 502 The Cell in Transition (8)****CMBL 503 The Differentiated Cell (8-10)****CMBL 511 Clinical Correlates (1)****CMBL 512 Clinical Correlates (1)****CMBL 513 Clinical Correlates (1)****CMBL 537 Introduction to Human Genetics (1)****CMBL 541 Cellular Structural Elements (3-4)****CMBL 542 Signal Transduction and Regulation (2-3)****CMBL 543 Immunology (4)****CMBL 544 Cell and Molecular Neurobiology (3)**

## EMERGENCY MEDICINE

**WILLIAM A. WITTLAKE, Chair**

**STEPHEN W. CORBETT, Vice Chair**

The philosophy of the Department of Emergency Medicine centers on a commitment to quality in its service, teaching, and research missions. This department functions as a “crossroads” interface between the community and the medical center services, providing a point of access to medical care for many people who are seriously and unexpectedly ill and whose condition may be compromised by geographic isolation and socioeconomic disadvantage.

The objectives of the department are to:

1. Provide and coordinate cost-effective, empathic, and compassionate prehospital, emergency, and trauma services of excellent quality.
2. Support and contribute to the achievement of medical-education competency for all categories of emergency-care professionals.
3. Develop initiatives that promote increased understanding of and improved techniques and skills in emergency-care practice, heighten positive perception of this specialty, and contribute to quality research in this area.
4. Promote teamwork skills among the various services and professionals comprising the emergency medical system.

### FACULTY

#### PROFESSORS

Richard E. Chinnock, PEDS  
Steven M. Green

#### ASSOCIATE PROFESSORS

Sean P. Bush  
Richard D. Catalano, SURG  
Stephen W. Corbett  
Clare M. Sheridan, PEDS  
Gail Stewart  
Tamara L. Thomas  
William A. Wittlake  
Thomas J. Zirkle, SURG

#### ASSISTANT PROFESSORS

Nader A. Abas  
Besh R. Barcega, PEDS  
Tony Chow  
Samuel C. Chua  
Linda Daniel-Underwood  
T. Kent Denmark  
David M. Englander  
Michelle R. Gill

Gregory T. Guldner  
Jeffrey T. Grange  
Melvyn L. Harris  
Jonathan M. Hayden  
Kevin G. Hegewald  
Patricia L. James  
James E. Keany, Jr.  
Aqeel S. Khan  
Grace J. Kim  
Frank A. Klanduch  
R. David Kovacic  
Victor D. Levine  
R. Daniel Luther  
E. Lea Lynch  
John C. Naftel  
Timothy P. Nesper  
Humberto R. Ochoa  
Mark G. Richmond  
W. Ahmad Salih  
Thomas S. Sherwin, PEDS  
Eric Siedenbug  
Dustin D. Smith  
Robert Steele  
Mark E. Thomas  
Samuel G. Wilson



**ASSISTANT CLINICAL PROFESSOR**

John S. Jones

**INSTRUCTORS**

Holly S. Cooper

Jaime Gonzalez

Megan Leung

Daved W. van Stralen, PEDS

**COURSES****SURG 821 Surgery Clerkship (100 hours participation)****EMDN 821 Emergency Medicine Clerkship (120 hours)**

Two-week required rotation of 8 eight-hour emergency department (ED) shifts. A variety of locations are used, including Loma Linda University Community Hospital, and Loma Linda University Medical Center—both the pediatric and adult components. An additional administrative shift is optional and will expose the participant to some administrative issues in emergency medicine—such as the radio room, paramedic ride-alongs, triage, EMTALA law, and nurse transport. Didactic sessions include attendance at emergency medicine residency conferences and grand rounds, and one-on-one learning experience with the senior administrative resident each Monday morning.

**EMDN 891 Emergency Medicine Elective (arranged)**

Two-week or four-week rotation of 4 eight-hour emergency department (ED) shifts weekly. A variety of locations are used, including Loma Linda University Community Hospital, and Loma Linda University Medical Center—both the pediatrics and adult components. Additional administrative shifts are optional and will expose the participant to some administrative issues in emergency medicine, such as the radio room, paramedic ride-alongs, triage, EMTALA law, and nurse transport. Didactic sessions include attendance at emergency medicine residency conferences and grand rounds, and one-on-one learning experience with the senior administrative resident each Monday morning.

**EMDN 892 Emergency Medicine Research Clerkship (240 hours)**

## FAMILY MEDICINE

JOHN K. TESTERMAN, Chair

The objectives of the Department of Family Medicine are to:

1. Provide medical students and residents with the highest level of training in the specialty of family medicine.
2. Help undergraduate students develop the skills to provide continuing and comprehensive health care for individuals and families.
3. Help students gain an appreciation for the breadth of family practice—which integrates the biological, clinical, and behavioral sciences in whole-person care.
4. Teach students how the scope of family practice encompasses not only health maintenance but also all disease entities as they may affect all ages, both sexes, and each organ system.
5. Introduce students to family-physician role models so that students will be able to make an informed choice regarding family medicine as a career option.
6. Show medical students a perspective of the health care system and the process of patient care at the primary care level, which includes clinical experience evaluating and managing common medical problems seen in the ambulatory setting.

### FACULTY

#### EMERITUS PROFESSOR

Raymond O. West

#### PROFESSOR

Wil Alexander, SURG

#### CLINICAL PROFESSOR

Robert D. Orr

#### ASSOCIATE PROFESSORS

Barbara L. Orr  
 Lauren M. Simon  
 John K. Testerman  
 Leonard S. Werner, MEDN, PHSL  
 Jack Yu

#### ASSOCIATE RESEARCH PROFESSOR

Kelly Morton

#### ASSOCIATE CLINICAL PROFESSOR

Timothy E. Neufeld

#### ASSISTANT PROFESSORS

Robert L. Avina  
 Daniel Castro, MEDN  
 Andrea M. Clarke

Debra D. Craig, MEDN  
 Janet A. Cunningham  
 Linda Deppe  
 Dai Vien Du  
 Linda H. Ferry, PRVM  
 John Fleming  
 Michael L. Grover  
 Helen P. Hopp-Marshak, PH  
 Richard Kim  
 Lauri P. McNaughton  
 Richard L. Milholm  
 Gina J. Mohr  
 Mark W. Olson  
 Michelle T. Opsahl  
 Jamie S. Osborn  
 Earl B. Quijada  
 Ivan L. Reeve  
 Michelle E. Reeves  
 Lois Ritchie  
 Jorge L. Rivera, SURG  
 Magda L. Robinson  
 Alane M. Samarza

#### ASSISTANT CLINICAL PROFESSORS

Y. Paul Aoyagi  
 Javier A. Armijo  
 Ronald P. Bangasser  
 Andre V. Blaylock  
 Iris J. Chung

Warren B. Churg  
 Patricia Guevara-Channell  
 Jean-Claude Hage  
 Tina M. Haller-Wade  
 Benny Hau  
 Jonathan Horstmann  
 Ming Chang Isinhue  
 William E. Junkert  
 Marina Khubesrian  
 Claire H. Koga  
 Kenneth M. Kopec  
 James S. Ku  
 Tony B. Lee  
 Gerald Lofthouse  
 Tarek Z. Mahdi  
 Manoucher Manoucheri  
 Elliot A. Meltzer  
 Renu Mittal  
 Walter C. Morgan  
 David Nutter  
 Michael R. Oliverio  
 Shantharam R. Pai  
 Raul Pardave  
 Lien T. Pham  
 R. Steven Pulverman  
 J. Franklin Randolph  
 Ruth Stanhiser  
 Jeffrey R. Unger  
 Dorothy E. Vura-Weis  
 Robert K. Yamada

**INSTRUCTORS**

Essie K. Lee  
 Nancy Testerman  
 Janelle M. Warren

**CLINICAL INSTRUCTORS**

Norman D. Bravo  
 Richard A. Leach  
 Margaret H. Lester  
 Ann M. Ronan

**COURSES****FMDN 599 Directed Elective Study (arranged)****FMDN 701 Family Medicine Clerkship (240 hours)**

Office management of patients of all ages, with emphasis on integrating biomedical, psychosocial, and spiritual issues. Appropriate preventive care. Four-week rotation includes conferences, didactics, and working with a preceptor.

**FMDN 799 Clinical Selective in Family Medicine (120 hours)****FMDN 821 Family Medicine Subinternship (240 hours)****FMDN 891 Family Medicine Elective (General Family Medicine) (arranged) (240 hours)**

Student works with Loma Linda family practice faculty to provide both inpatient and outpatient care.

**FMDN 892 Family Medicine Elective (Interresidency Elective in Family Medicine) (240 hours)**

Opportunity for student to experience family-practice residencies with several different models of care: managed care (Kaiser-Fontana and Riverside), indigent/public health approach (San Bernardino County and Riverside General hospitals), and a mixed practice (Loma Linda Family Medicine). Specific learning objectives developed by student, with supervising faculty. (Open to 4th-year students.)

**FMDN 894 Family Medicine Elective (Adolescent Pregnancy: Social and Medical Aspects) (240 hours)**

Opportunity to learn about medical and social issues related to pregnancy prevention and pregnancy care for adolescents. Participation in teen clinics, high school classrooms for pregnant or parenting teens, home visits, and prevention programs. Required research paper on an area of interest. (Open to 4th-year students.)

**FMDN 895 Family Medicine Elective (Sports Medicine) (240 hours)**

Opportunity to develop strong history and physical-examination skills related to sports-medicine problems in various areas, including medical, nutritional, musculoskeletal, or psychosocial. Learning sites include athletic settings, the Department of Family Medicine, and the Drayson Center.

**MDCJ 521, 522, 523 Physical Diagnosis (110 hours) (8, 4, 4)**

Provides a core foundation of knowledge, skills, values, and attitudes necessary for effective physician-patient communication and physical examination.

**MDCJ 701 Orientation to Clinical Medicine (240 hours)**

Builds on the second-year course MDCJ 525, 526 Pathophysiology and Applied Physical Diagnosis. Provides the knowledge, skills, values, and attitudes necessary to facilitate a smooth transition from the preclinical to the clinical curriculum.

**MDCJ 821 Ambulatory Care Clerkship (240 hours)**

Interdisciplinary, four-week rotation designed to broaden exposure to community-based health care done mainly in primary-care clinics. Clinical experience in areas not otherwise covered in the curriculum: dermatology and STDs, clinical preventive medicine, and integrative/whole-person care in ambulatory and managed-care settings.

## GYNECOLOGY AND OBSTETRICS

ALAN KING, Chair

The purpose of the Department of Gynecology and Obstetrics is to provide an academic environment that encourages learning, teaching, and research. The objectives of the department are to:

1. Provide medical students with a broad base of knowledge in obstetrics and gynecology for entrance into a primary-care specialty.
2. Instill a standard of medical excellence that will lead to a continuing program of medical education, reaching through and beyond the residency years.
3. Provide faculty who function as role models for the students and residents.

### FACULTY

#### DISTINGUISHED PROFESSOR

Lawrence D. Longo, PHSL, PEDS

#### PROFESSORS

Philip J. Chan, PHSL  
Raymond Gilbert, PHSL  
Alan King  
Gordon G. Power, MEDN, PHSL  
Elmar P. Sakala  
Barry S. Schifrin

#### ASSOCIATE PROFESSORS

Barry S. Block  
John D. Jacobson  
Elden D. Keeney  
Kenneth J. McGill  
William C. Patton  
Herminia S. Salvador  
Mary L. Small  
Robert J. Wagner

#### ASSOCIATE CLINICAL PROFESSORS

Miguelito M. Fernando  
Wilbert Gonzalez  
Robert H. Gregg  
Beverly J. Gregorius  
Jack G. Hallatt  
Rick D. Murray  
Masao Nakamoto  
Ibrahim M. Seraj  
Clifford A. Walters

#### ASSISTANT PROFESSORS

Johannah Corselli  
Yvonne G. Gollin  
Jeffrey S. Hardesty  
Melissa Y. Kidder  
Kathleen M. Lau  
Leroy A. Reese  
Ron Swensen

#### ASSISTANT CLINICAL PROFESSORS

Teresa P. Avants  
Chul Choi  
Young-il H. Hahn  
Ronald B. Johnson  
J. Dee Lansing  
Laurel J. Munson  
Karen N. Oshiro  
Harold V. Racine  
Marvin M. Sando  
Kathryn Shaw  
E. Laurence Spencer-Smith  
Darrell L. Vaughan  
Kim Warner  
Cinna T. Wohlmuth

#### INSTRUCTORS

Emily D. Gibson  
Marilyn Herber

#### CLINICAL INSTRUCTORS

Elisa M. Lindley  
Ronald S. Wu

**COURSES**

**GYOB 599 Gynecology and Obstetrics Directed Study (arranged)**

**GYOB 701 Gynecology and Obstetrics Clerkship (360 hours)**

**GYOB 891 Gynecology and Obstetrics Elective (arranged)**

**MDCJ 524, 525, 526 Pathophysiology and Applied Physical Diagnosis (78 hours) (\_\_, 5, 4)**

Two parallel components that bridge the preclinical curriculum to the clinical curriculum:

(1) Pathophysiology lectures build upon the courses in organ pathology and physiology, introduce students to the pathophysiologic principles underlying mechanisms of disease, and emphasize the application of these principles to a variety of new situations that require problem solving and synthesis in a clinical context.

(2) Practical experience develops and applies skills that build on the first-year sequence in physical diagnosis.

Prerequisite: MDCJ 522, 523.



## MEDICINE

**JAMES J. COUPERUS, Chair**

**PHILIP M. GOLD, Executive Vice Chair, Department of Medicine**

**J. LAMONT MURDOCH, Vice Chair, Loma Linda University Medical Center**

**PHILIP J. ROOS, Vice Chair and Chief of Service, Jerry L. Pettis Veterans Medical Center**

**DOUGLAS R. HEGSTAD, Vice Chair, Riverside General Hospital University Medical Center**

**RAYMOND Y. WONG, Associate Chair for Student Education**

**TERENCE D. LEWIS, Associate Chair for Resident Education**

**JAMES P. LARSEN, Associate Chair for Continuing Medical Education**

**RAYMOND HERBER, Associate Chair for Finance and Development**

**KEITH K. COLBURN, Associate Chair for Research**

### DIVISIONS

#### CARDIOLOGY

KENNETH R. JUTZY, Head

#### CLINICAL PHARMACOLOGY

RALPH E. CUTLER, Head

#### DERMATOLOGY

ABEL TORRES, Head

#### ENDOCRINOLOGY

J. LAMONT MURDOCH, Head

#### GASTROENTEROLOGY

MICHAEL H. WALTER, Head

#### GENERAL INTERNAL MEDICINE AND GERIATRIC MEDICINE

RAYMOND Y. WONG, Head

#### INFECTIOUS DISEASE

JAMES J. COUPERUS, Head

#### NEPHROLOGY

SIEGMUND TEICHMAN, Head

#### ONCOLOGY-HEMATOLOGY

FRANK D. HOWARD IV, Head

#### PULMONARY AND CRITICAL CARE MEDICINE

PHILIP M. GOLD, Head

#### RHEUMATOLOGY AND IMMUNOLOGY

KEITH K. COLBURN, Head

**T**he motto of Loma Linda University, “To Make Man Whole,” is central to achieving the objectives of the Department of Medicine. We must progress with the science of medicine; and we must also strive to maintain the art of medicine—the caring attitude that is so important to our well-being as physicians and to the well-being of our patients.

The objectives of the department are to:

1. Train medical students in the highest tradition of medical education—both the art and the science of medicine.
2. Train resident physicians in the art, science, and practice of internal medicine consistent with the high ideals of this School and of the American College of Physicians.
3. Disseminate to our colleagues new and recent discoveries in the science of medicine.
4. Be actively involved in the study of basic pathophysiology of disease processes.
5. Care for our patients with expertise and compassion in the highest Christian tradition.

## FACULTY

### INTERNAL MEDICINE DIVISIONS

#### EMERITUS PROFESSORS

Habeeb Bacchus  
 William L. Cover  
 Raymond B. Crawford  
 Ralph E. Cutler, PHRM  
 Walter S. Graf  
 George M. Grames  
 John J. Harris  
 Donald L. John  
 Varner J. Johns, Jr.  
 Robert D. Mitchell  
 John E. Peterson, Sr.  
 Stewart W. Shankel  
 Weldon J. Walker  
 William J. Wechter

#### DISTINGUISHED PROFESSORS

W. Ross Adey, PHSL, NEUR  
 David J. Baylink, BCHM, ORTH

#### PROFESSORS

Stephen Ashwal, NEUR, PEDS  
 Ramesh C. Bansal  
 C. Joan Coggin  
 James P. Drinkard  
 Harvey A. Elder  
 Glenn L. Foster  
 Gary E. Fraser, PRVM  
 Philip M. Gold  
 Raymond Herber  
 J. Thomas Heywood  
 Dale M. Isaeff  
 Geun C. Jang  
 Roy V. Jutzy

Irvin N. Kuhn  
 Francis Y. K. Lau  
 John E. Lewis, PATH, MICR  
 Michael B. Lilly, MICR  
 Imtiaz A. Malik  
 J. Lamont Murdoch  
 Jerald C. Nelson, PATH  
 Ramdas G. Pai  
 Donald I. Peterson, PHRM, NEUR  
 Gordon W. Peterson, NEUR  
 Gordon G. Power, GYOB, PHSL  
 Lawrence C. Sowers, BCHM, MICR  
 Charles R. Tourtellotte

#### EMERITUS CLINICAL PROFESSORS

Habeeb Bacchus  
 Irving L. Leff

#### CLINICAL PROFESSORS

Martin J. Collen  
 Joseph Gropen  
 L. Julian Haywood  
 Robert L. Johnson  
 Paul A. Levine  
 Pravin M. Shah  
 Richard L. Sheldon  
 Dale B. Sparks

#### EMERITUS RESEARCH PROFESSOR

Milton G. Crane

#### RESEARCH PROFESSORS

John R. Farley, BCHM  
 Kin-Hing W. Lau, BCHM  
 John Leonora, PHSL, BCHM  
 Subburaman Mohan, PHSL, BCHM  
 Donna D. Strong, BCHM, MICR  
 Jon E. Wergedal, BCHM

**CLINICAL RESEARCH PROFESSOR**

Lawrence B. Sandberg, PATH

**EMERITUS ASSOCIATE PROFESSORS**

E. Danford Quick  
H. Glenn Stevens

**ASSOCIATE PROFESSORS**

Muyaed Al-Zaibag  
James D. Anholm  
David Bland  
Ingrid K. Blomquist  
Charles H. Brinegar, Jr.  
Chien-Shing Chen  
Keith K. Colburn  
Stanley C. Condon  
James J. Couperus  
Ralph Downey III  
Dwight C. Evans  
David R. Ferry  
Thomas E. Godfrey  
Lora M. Green, MICR  
Paul G. S. J. Hammond  
Douglas R. Hegstad  
Donald J. Hillebrand  
Ke-qin Hu  
Arnando J. Huaranga  
John C. Jennings  
Kenneth R. Jutzy  
George M. Isaac  
Edwin H. Krick  
James P. Larsen  
Terence D. Lewis  
Lawrence K. Loo  
John D. McCracken  
Robert J. Marsa  
Donald Miller, NEUR  
Sudha Pai  
Marc L. Platt  
Paulo A. Ribeiro  
Arthur J. Riesenfeld  
Philip J. Roos  
Sevel A. Sadjadi  
Robert E. Soderblom  
Siegmond Teichman  
Vilma Torres  
Michael H. Walter  
Leonard S. Werner, FMDN, PHSL  
David W. Wilbur  
Raymond Y. Wong

**ASSOCIATE RESEARCH PROFESSORS**

Cesar Libanati  
Barbara E. Loughman  
Keshab D. Pant  
Xue Zhong Qin

**EMERITUS ASSOCIATE CLINICAL PROFESSORS**

Bertram H. Eckmann  
Norman M. Shure

**ASSOCIATE CLINICAL PROFESSORS**

Patricia J. Applegate  
Kumaravelu Balasubramaniam  
Reiner Bonnet  
Daniel L. Bouland  
Evert A. Bruckner  
Robert H. Chaney  
Zeno L. Charles-Marcel  
James R. Dexter  
Daniel Gorenberg  
Albert J. Josselson  
Gary E. Marais  
H. John Marais  
Sukh S. R. Mehta  
Edward Phillips  
Gilbert J. Putnoky  
Robert E. Rentschler  
Allen L. Schwandt  
Chauncey L. Smith  
Richard M. Strong

**ASSISTANT PROFESSORS**

Ramadas Abboy  
Imdad Ahmad  
Shobha S. Aiyan  
Dajeet B. Bansal  
David M. Bee  
Jesus G. Berdega  
Diane J. Berriman  
Joann K. Bischoff  
Cyril D. Blaine  
Patricia S. Blakely  
Vickie D. Brown-Harrell  
John M. Byrne  
Cynthia R. Canga-Siao  
Kenneth A. Cantos, PATH  
Carlos Casiano, MICR  
Daniel Castro, FMDN  
Suzanne E. Chang  
Gregory Cheek  
David S. Condon  
Adrian N. Cotton  
Alfred C. Cottrell  
Debra D. Craig, FMDN  
Nagamani Dandamudi  
Zemin Deng  
Vishvanath V. Date  
Anthony F. Firek  
Franz P. Fisher  
Steven C. Forland  
Helmut F. Fritz  
Geir P. Frivold  
Alma A. Gonzaga  
Ronald Griffin  
Jocelyn Gunnarsson  
Mouna E. Haddad-Wilson  
Steven B. Hardin  
William H. Hardt, Jr.  
Frank D. Howard IV  
Russell E. Hoxie  
James J. Huang  
Enacio G. Hunt



Joshua A. Imperio  
 Michael B. Ing  
 Denise L. Jackson Townsend  
 Alan K. Jacobson  
 Torbjorn I. Jorteg  
 Vikram V. Kamdar  
 Jeffery M. Katz  
 Brent W. Kay  
 Balram S. Khehra  
 Daniel I. S. Kim  
 Dennis Y. Kim  
 Mi Ye Kim  
 Rajagopal Krishnan  
 Victor K. Lamin  
 Euly M. Langga-Sharifi  
 Alan C. K. Lau  
 Susie H. Lau  
 Jung-Sup Lee  
 Scott W. Lee  
 Diane C. Lim  
 Ju-an Lin  
 Takkin Lo  
 James I. McMillan  
 Priya Malik  
 Ramesh K. Manchanda  
 J. Todd Martell  
 Malwinder K. Multani  
 Axa I. Newball  
 Fergus Ng  
 Sherlene Ng  
 Pushpa Nowrang, PEDS  
 Seekook Park  
 Gary L. Pauls  
 John A. Rambharose  
 Syed J. Raza  
 Timothy Richardson  
 Rhodes L. Rigsby  
 Suzanne S. Rizkalla  
 Steven E. Roberts  
 Maher A. Roman  
 John W. Samples  
 Cynthia L. Serabyn  
 Rina N. Shah  
 Tamara M. Shankel, PEDS  
 Tahseen N. Shareef  
 Vasthi V. Silva  
 Lynnetta Skoretz  
 Fred Soeprono  
 N. Lennard Specht  
 Liset N. Stoletniy  
 Debra D. Stottlemeyer  
 Michael W. Sue  
 Richard J. Swabb  
 Linda Giles Tan  
 Shirley M. Tan  
 Leah A. Tud Tud-Hans  
 Padmini Varadarajan  
 Sammy S. Wong  
 Michael K. Woo  
 Yasmin A. Yusufaly

**ASSISTANT CLINICAL PROFESSORS**

Hyung W. An  
 Monica M. Banerjee  
 Eugene P. Boling

Gary W. Brown  
 Elber S. Camacho  
 Ethelred E. Carter  
 Andrew C. H. Chang  
 Daniel S. Cosgrove  
 Lino J. DeGuzman  
 Thomas C. Denmark  
 Douglas O. W. Eaton  
 Marian A. Fedak  
 J. Michael Finley  
 Mary A. Flowers  
 Gerald S. Friedman  
 Juanito Garlitos  
 Marla G. Giem  
 Alan Gorenberg  
 Margaret A. Griffin  
 Vickie V. Height  
 Jan M. Herrmann  
 Dennis A. Hilliard  
 Patricia C. Hsia  
 Galen C. L. Huang  
 Mehdi S. Jahromi  
 Catherine M. Kennedy  
 Sherif F. Khalil  
 A. Hafeez Khan  
 Sadruddin G. Hussain Khoja  
 Steven E. Larsen  
 Joseph Lee  
 Carmela M. Leonora  
 Duncan Leung  
 Tarek Z. Mahdi, FMDN  
 Chandrakant V. Mehta  
 Patrick M. Moloney  
 Ashis Mukherjee  
 Annette T. Nitta  
 Victoria Rains  
 Herman H. Ricketts  
 Cynthia C. Ruiz  
 Alan C. Schwartz  
 Terrence H. C. Shum  
 Ajeet R. Singhvi  
 Khushal A. Stanisai  
 Chao H. Sun  
 Stanley A. Tan  
 Douglas W. Teller  
 Gordon W. Thompson  
 Bhoodev Tiwari  
 Bertrand H. Vipond  
 Paul D. Wentland  
 Wilson J. Yap

**ASSISTANT RESEARCH PROFESSORS**

Reinhard Gysin  
 Godfred Masinde  
 Earl D. Murray  
 Elaine B. Schwartz  
 Apurva Srivastava

**CLINICAL INSTRUCTORS**

Kenneth D. Doran  
 J. Robert Evans

**INSTRUCTORS**

Siavash Arani  
 Mihran H. Ask, PRVM

Rebekah Bartos  
 Donald M. Blackman  
 Ronald S. Fernando  
 Roger C. Garrison  
 Eduardo J. Gonzaga  
 Susan L. Hall  
 Nancy J. Heine  
 Kathy A. Herzberger  
 Kevin B. Hill  
 Faher Koteira  
 Wilson D. Lao  
 Telahun Zewdie

**RESEARCH INSTRUCTOR**

Felipe Jimenez

**ADJUNCT ASSISTANT PROFESSOR**

David D. McFadden

**DERMATOLOGY DIVISION****EMERITUS PROFESSOR**

Theodore M. Cohen

**PROFESSORS**

Nancy J. Anderson  
 Abel Torres  
 Edwin T. Wright, PATH

**ASSOCIATE CLINICAL PROFESSORS**

Bernard Gottlieb, PATH  
 Hubert C. Watkins

**ASSISTANT PROFESSORS**

John H. Bocachica  
 Jane M. Hirokane  
 Kenneth D. Macknet, Jr.  
 David Opai-Tetteh

**ASSISTANT CLINICAL PROFESSORS**

Desmond D. Gibson  
 Soon-Seng Lee  
 Wendy E. Roberts  
 Fred F. Soeprono, PATH  
 Ingrid E. Trenkle  
 J. Robert West

**INSTRUCTOR**

Donna M. West

**COURSES**

**MEDN 516 Introduction to Clinical Medicine (3)**

**MEDN 599 Medicine Directed Study (arranged)**

**MEDN 701 Medicine Clerkship (720 hours)**

**MEDN 799 Geriatric Medicine (120 hours)**

Introduces students to the unique needs of older adults. Provides experience in the multidisciplinary, whole-person care of older adults, with emphasis on functional assessment.

**MEDN 821 Medicine Clerkship (240 hours)****MEDN 822 Medicine ICU (120 hours)****MEDN 891 Medicine Elective (arranged)****DERM 799 Clinical Selective in Dermatology (120 hours)****DERM 891 Dermatology Elective (120-720 hours)****MDCJ 501 Introduction to Medicine SM (2)**

Taught by the Department of Medicine and the Faculty of Religion for students in the Early-Decision Program. Designed to help students develop the writing and reading skills essential to perform medical duties, and to help students develop the whole-person-care focus necessary for success as a physician.

**MDCJ 502 Introduction to Medicine II (2)**

Taught for students in the Early-Decision Program by the Faculty of Religion and by the Departments of Biochemistry, Medicine, Pathology and Human Anatomy (Anatomy Division), and Surgery. Designed to help students develop skills in problem-based learning, standardized patient assessment, and whole-person care—skills that are necessary for success as a physician.

**MDCJ 521, 522, 523 Physical Diagnosis (110 hours) (8, 4, 4)**

Provides a core foundation of knowledge, skills, values, and attitudes necessary for effective physician-patient communication and physical examination.

**MDCJ 524, 525, 526 Pathophysiology and Applied Physical Diagnosis (\_\_, 5, 4)**

Two parallel components that bridge the preclinical curriculum to the clinical curriculum:

(1) Pathophysiology lectures build upon the courses in organ pathology and physiology, introduce students to the pathophysiologic principles underlying mechanisms of disease, and emphasize the application of these principles to a variety of new situations that require problem solving and synthesis in a clinical context.

(2) Practical experience develops and applies skills that build on the first-year sequence in physical diagnosis.

Prerequisite: MDCJ 522, 523

**MDCJ 701 Orientation to Clinical Medicine (240 hours)**

Builds on the second-year course MDCJ 525, 526 Pathophysiology and Applied Physical Diagnosis. Provides the knowledge, skills, values, and attitudes necessary to facilitate a smooth transition from the preclinical to the clinical curriculum.

**MDCJ 821 Ambulatory Care Clerkship (240 hours)**

Interdisciplinary, four-week rotation designed to broaden exposure to community-based health care done mainly in primary-care clinics. Clinical experience in areas not otherwise covered in the curriculum: dermatology and STDs, clinical preventive medicine, and integrative/whole-person care in ambulatory and managed-care settings.

# NEUROLOGY

DANIEL W. GIANG, Chair

**N**eurologic disorders are common, and it is essential that students learn to recognize and treat them. The objective of the four-week course is for the student to further God's work of restoring wholeness to people through excellence in neuroscientific education, investigation, and clinical care.

## FACULTY

**DISTINGUISHED PROFESSOR**  
W. Ross Adey, MEDN, PHSL

**PROFESSORS**  
Carmel Armon  
Stephen Ashwal, MEDN, PEDS  
Daniel W. Giang  
Donald Miller, MEDN  
Donald I. Peterson, PHRM, MEDN  
Gordon W. Peterson, MEDN

**ASSOCIATE PROFESSORS**  
Thomas W. Bohr  
Jeffrey A. Bounds  
Boleslaw H. Liwnicz, PATH  
Sarah M. Roddy, PEDS  
Lori A. Shutter, ANES  
David M. Swope

**ASSOCIATE CLINICAL PROFESSORS**  
Felice L. Loverso, PMRH  
R. Richard Sloop

**ASSISTANT PROFESSORS**  
Bradley A. Cole  
Rodolfo O. Escutin  
Perin D. Gomer  
Dorothee Lambert

Laura H. Nist  
Lori D. Uber-Zak  
Jon E. Ween

**ASSISTANT CLINICAL PROFESSORS**  
Robert A. Klein  
Antonio K. Liu

**INSTRUCTORS**  
Chalmers D. McClure III, PEDS  
Michael T. Ropacki  
Sarah Uffindell

**ADJUNCT ASSISTANT CLINICAL PROFESSOR**  
Izabella Soo

## COURSES

**NEUR 599 Directed Elective Study (arranged)**

**NEUR 821 Neurology Clerkship (240 hours)**  
Basic neurology lectures, weekly neuroradiology conferences, neurology grand rounds, clinical neurology conference, and biweekly neuropathology conference. Student attendance required. Student participation in the outpatient neurology clinics during neurology rotation.

**NEUR 891 Neurology Elective (arranged)**



## OPHTHALMOLOGY

**HOWARD V. GIMBEL, Chair**

**ERNEST S. ZANE, Vice Chair**

**T**he Department of Ophthalmology is committed to:

1. Provide an academic environment that will foster an understanding of ophthalmology as a specialty.
2. Provide an education for students and residents that prepares them for service in communities when training has been completed.
3. Develop clinical research.
4. Encourage students and residents in preventive ophthalmology.

### FACULTY

#### EMERITUS PROFESSOR

Sidney B. Brownsberger

#### PROFESSOR

Howard V. Gimbel

#### CLINICAL PROFESSORS

James I. McNeill

Charles M. Stephenson, Sr.

#### ASSOCIATE PROFESSORS

James Guzek

David L. Wilkins

Ernest S. Zane

#### ASSOCIATE CLINICAL PROFESSORS

Paul A. Blacharski

Clement K. Chan

James L. Davidian

Young Hyun Oh

Christopher Stephenson

P. Harold Wallar

Izak F. Wessels

#### ASSISTANT PROFESSORS

Pamela Y. Bekendam

Arthur W. Giebel

Jeffrey C. Hong

Michael E. Rauser

Alan J. Riezman

Kimber L. Schneider

Kris J. Storkersen

#### ASSISTANT CLINICAL PROFESSORS

Kimberly D. Ackley

Christopher L. Blanton

Paul Y. Chung

Denis J. Cline

Loren L. Denler

Robert M. Duffin

Jennifer A. Dunbar

Christina J. Flaxel

Eric J. Friedrichsen

Kenneth Houchin

Gary G. Huffaker

Kristin E. Isaacs

David R. McGrew

Richard D. Pesavento

Robert C. Rosenquist, Jr.

Gerald Schultz

Lance M. Siegel

Tom Tooma

Robert R. Wresch

Steven E. Zane

#### INSTRUCTORS

Shyun Jeng

Sharon Takayesu

#### COURSES

**SURG 821 Surgery Clerkship (participation)**

**OPHM 891 Ophthalmology Elective (arranged)**

# ORTHOPAEDIC SURGERY

CHRISTOPHER M. JOBE, Chair

**T**he Department of Orthopaedic Surgery provides a lecture series to junior medical students. The objectives of the series are to:

1. Introduce the specialty of orthopaedic surgery.
2. Teach physical diagnosis of the musculoskeletal system.
3. Review care of common orthopaedic conditions.
4. Survey orthopaedic subspecialties and orthopaedic surgery.
5. Stimulate students to consider a career in orthopaedic surgery.

## FACULTY

### EMERITUS PROFESSORS

Fred A. Polesky  
Dana M. Street

### PROFESSORS

William P. Bunnell, PEDS  
Christopher M. Jobe, PATH  
Virchel E. Wood

### CLINICAL PROFESSORS

Gary K. Frykman  
D. Allan MacKenzie, PEDS  
Milton K. Mudge  
Hiromu Shoji

### RESEARCH PROFESSORS

David J. Baylink, BCHM, MEDN  
Ian C. Clarke

### ASSOCIATE PROFESSORS

William A. Craig  
G. Allen Gustafson  
Philip H. Reiswig  
James E. Shook, PEDS  
Leisure Yu

### ASSOCIATE CLINICAL PROFESSORS

Claran H. Jesse  
D. Robert Johnson  
Martin Koffman  
Walter C. Nash  
Eskild A. Reinhold  
Kenneth R. Roth  
Herman R. Schoene  
G. Carleton Wallace  
George J. Wieseaman

### ASSISTANT PROFESSORS

Gurbir Chhabra  
Michael J. Coen

Bernarr B. Johnson  
Michael H. Wright

### ASSISTANT RESEARCH PROFESSOR

Qiang G. Dai

### ASSISTANT CLINICAL PROFESSORS

Charles H. Alexander  
David V. Anderson  
William W. Bowen  
William E. Brown  
Vincent J. Devlin  
Thomas K. Donaldson  
Brian S. Doyle  
Ray L. Foster  
Ronny G. Ghazal  
Barry S. Grames  
Bradley R. Hotchner  
Mary E. Hurley  
Satish K. Lal  
Paul C. W. Liu  
James D. Matiko  
Clifford D. Merkel  
Timothy A. Peppers  
Roy M. Rusch  
John C. Steinman  
David L. Wood  
Steven R. Yegge

### INSTRUCTORS

Karim Abdollahi  
William S. Beal  
Rodney D. Brandt  
Wayne K. Cheng  
John M. Chrisler  
Scott C. Nelson  
Barry E. Watkins  
M. Daniel Wongworawat

### RESEARCH INSTRUCTOR

Paul Williams

**CLINICAL INSTRUCTORS**

Hazel J. Berglund  
David G. Erickson  
Navid Ghalambor  
Ralph N. Steiger  
Gurvinder S. Uppal  
James R. Watson

**COURSES**

**SURG 821 Surgery Clerkship (participation)**  
**ORTH 891 Orthopaedic Surgery Elective  
(arranged)**



# PATHOLOGY AND HUMAN ANATOMY

**BRIAN S. BULL, Chair**

## **ANATOMY DIVISION**

### **HUMAN ANATOMY**

**PEDRO B. NAVA, JR., Head**

## **PATHOLOGY DIVISION**

### **ANATOMIC PATHOLOGY**

**DONALD R. CHASE, Head**

### **PEDIATRIC PATHOLOGY**

**CRAIG W. ZUPPAN, Head**

### **LABORATORY MEDICINE**

**JAMES M. PAPPAS, Head**

**T**he primary goal of the Department of Pathology and Human Anatomy is to educate capable, compassionate, scientifically minded physicians dedicated to the mission and objectives of Loma Linda University School of Medicine. The courses offered by the department provide a bridge to the clinical sciences, spanning the entire two years of the preclinical curriculum—from foundational principles of gross, microscopic, and developmental anatomy to modern pathophysiologic concepts. Progressive emphasis is placed on cultivating the student's ability to integrate basic knowledge of structure, function, and dysfunction of the human body with analytical skills in solving clinical problems.

The department is strongly committed to:

1. Biomedical research designed to promote creative and critical thinking on the part of all students and faculty.
2. Provide an environment conducive to the pursuit of original studies by those oriented towards investigative medicine.

**FACULTY**

**ANATOMY DIVISION**

**EMERITUS PROFESSORS**

Paul C. Engen  
Daniel A. Mitchell, Jr., SURG  
Walter H. B. Roberts  
E. Harold Shryock

**PROFESSORS**

John O. Archambeau, RDMN, PEDS  
William H. Fletcher, PHSL  
Raymond Gilbert, PHSL, GYOB  
Paul J. McMillan  
Robert L. Schultz

**ASSOCIATE PROFESSORS**

William M. Hooker  
Michael A. Kirby, PEDS, PATH  
Pedro B. Nava  
Steven M. Yellon, PEDS, PHSL

**ASSISTANT PROFESSORS**

Johannah Corselli, GYOB  
Bertha C. Escobar-Poni  
David A. Henderson  
Kerby C. Oberg  
William Wagner, SURG  
Kenneth R. Wright

**PATHOLOGY DIVISION**

**EMERITUS PROFESSOR**

Albert E. Hirst, Jr.

**PROFESSORS**

Brian S. Bull  
Jeffrey D. Cao  
Donald R. Chase  
Resa L. Chase  
G. Gordon Hadley  
Darryl G. Heustis  
Ralph A. Korpman  
John E. Lewis, MEDN, MICR  
Boleslaw H. Liwnicz, NEUR  
Bo Ying Wat  
Edwin T. Wright, DERM

**RESEARCH PROFESSOR**

Jerald C. Nelson, MEDN

**CLINICAL PROFESSORS**

Weldon J. Bullock  
Thomas T. Noguchi

**CLINICAL RESEARCH PROFESSOR**

Lawrence B. Sandberg, MEDN

**EMERITUS ASSOCIATE PROFESSORS**

Albert F. Brown  
Gerhardt L. Dybdahl  
Dick H. Koobs  
Robert E. Moncrieff  
Albert Olson

Mildred L. Stilson  
Rodney E. Willard

**ASSOCIATE PROFESSORS**

Arthur J. Hauck  
Keith D. Hoffmann, SD  
Christopher M. Jobe, ORTH  
Norman H. Peckham  
George W. Saukel  
Craig W. Zuppan

**ASSOCIATE RESEARCH PROFESSORS**

Denise Bellinger  
Richard W. Hubbard, BCHM  
Michael A. Kirby, PEDS, ANAT

**ASSOCIATE CLINICAL PROFESSORS**

Bernard Gottlieb, DERM  
Berend Houwen  
Ewald R. Lonser  
Arthur J. Silvergleid

**ASSISTANT PROFESSORS**

M. Rose Akin  
Kenneth A. Cantos, MEDN  
Wilson K. W. Chick  
Evelyn B. Choo  
Kil Un Lee  
Morrel T. Moorehead  
Kerby C. Oberg, ANAT  
James M. Pappas  
Mia C. N. Perez  
Edward H. Rowsell  
Kevin S. Thompson  
Jun Wang  
Pamela J. Wat

**ASSISTANT RESEARCH PROFESSORS**

Ronald H. Hillock  
Giuseppe Molinaro, MICR, PEDS

**ASSISTANT CLINICAL PROFESSORS**

Neita R. Duazo  
Joy I. Fridey  
Fikry F. Hanna  
Frank R. Sheridan  
Fred F. Soeprono, DERM  
Ingrid E. Trenkle, DERM  
Steven J. Trenkle, PEDS

**ADJUNCT PROFESSORS**

J. Bruce Beckwith, PEDS, UROL  
David L. Felten  
Gary W. Mierau

**ADJUNCT ASSOCIATE CLINICAL PROFESSOR**

W. William Hughes III

**ADJUNCT ASSOCIATE RESEARCH PROFESSOR**

Lee S. Berk, PRVM

**ADJUNCT ASSISTANT PROFESSOR**

Anwar S. S. Raza

**ADJUNCT ASSISTANT RESEARCH PROFESSOR**

Srinivasan Thyagarajan



**COURSES**

**ANAT 501, 502 Human Anatomy DN (3, 3)**  
Anatomy of the human body. Lecture and dissection course that includes developmental history pertinent to understanding of the adult. Emphasis on structures of the head and neck.

**ANAT 503 Human Histology DN (5)**  
Detailed microscopic study of fundamental tissues, cells, organs, and systems of the human body.

**ANAT 504 Oral Histology and Development DN (3)**  
Introduction to general embryology, followed by a detailed study of microanatomy of the teeth and adjacent structures.

**ANAT 505 Neuroanatomy DN (3)**  
Basic anatomy of the human nervous system. Structure correlated with function as much as possible at macroscopic, microscopic, and ultramicroscopic levels. Correlation with clinical neurology.

**ANAT 517 Gross Anatomy/Embryology SM (9)**  
Regional systemic study of the human body, with correlation to radiology and clinical medicine. Survey of human embryonic development. Consideration given to origins of common birth defects.

**ANAT 528 Detailed Dissection of the Head and Neck DN (Surgical) (2)**  
Detailed dissection of the head and neck. Demonstration and lecture.  
Prerequisite: ANAT 541 or equivalent.

**ANAT 537 Neuroscience GS (8)**  
Structure and function of the human nervous system.

**ANAT 541 Gross Anatomy GS (6, 4)**  
Anatomy of the head, neck, locomotor system, thorax, abdomen, pelvis, and perineum. Correlated with radiology and applied features.

**ANAT 542 Cell, Tissue, and Organ Biology GS (2, 4)**  
Microscopic structure of cells, tissues, and organs of the human body.

**ANAT 544 Human Embryology GS, Lecture (2)**  
The plan of development as it pertains to the human. Consideration of principles. Laboratory work involving the use of both human and comparative materials.  
Prerequisite: A course in vertebrate embryology.

**MDCJ 531, 532, 533 Cell Structure and Function SM (150 hours) (5, 4, 4)**  
Fully integrated, comprehensive course that develops knowledge and skills relating normal microscopic and submicroscopic anatomy to cellular biology, cellular physiology, and immunology. General pathology—the common thread for the course—familiarizes students with morphologic and functional changes affecting cells exposed to a variety of normal and, to a lesser extent, abnormal environments.

**MDCJ 541, 542 Medical Neuroscience SM (71 hours) (4, 4)**  
Fundamentals of neuroanatomy and neurophysiology integrated in a clinical context with principles of the human nervous system.

**MDCJ 550, 551, 552, (3, 2, 2) Evidence-Based Medicine and Information Sciences**  
Designed for freshman medical students. Introduces basic concepts of evidence-based medicine to help facilitate lifelong, self-directed learning. Describes the challenges of the information needs of the 21st-century physician. Teaches a process by which students can efficiently and effectively acquire the answers to their clinical questions and apply them to the care of the patients they see. Teaching methodologies include large-group didactic presentations; small-group discussions; and self-study, on-line exercises. Sets the foundation for an ongoing, lifelong learning process. (Replaces MDCJ 545, 546, 547 effective August 5, 2002.)

**LABORATORY MEDICINE**

**PATH 512, 513, 514 Human Pathology: Review by Organ Systems (100 hours) (4, 3, 3)**  
Systematic review of diseases affecting each organ system. Etiology, pathogenesis, morphology, pathophysiology, and biologic behavior covered; as well as relevant laboratory medicine techniques. Correlation with concurrent courses in physiology, microbiology, and physical diagnosis.

Prerequisite: MDCJ 531, 532, 533.

Recommended: Concurrent or previous medical microbiology.

**PATH 599 Directed Study (arranged)**

**PATH 891 Pathology Elective (arranged)**

**MDCJ 531, 532, 533 Cell Structure and Function (150 hours) (5, 4, 4)**  
Fully integrated, comprehensive course that develops knowledge and skills relating normal microscopic and submicroscopic anatomy to cellular biology, cellular physiology, and immunology. General pathology—the common thread for the course—familiarizes students with morphologic and functional changes affecting cells exposed to a variety of normal and, to a lesser extent, abnormal environments.

**MDCJ 701 Orientation to Clinical Medicine (240 hours)**  
Builds on the second-year course MDCJ 525, 526 Pathophysiology and Applied Physical Diagnosis. Provides the knowledge, skills, values, and attitudes necessary to facilitate a smooth transition from the preclinical to the clinical curriculum.

## PEDIATRICS

JOHN W. MACE, Chair

### DIVISIONS

#### CRITICAL CARE

SHAMEL ABD-ALLAH, Head

#### PEDIATRIC ENDOCRINOLOGY

EBA H. HATHOUT, Head

The mission of the Department of Pediatrics is to provide patient services, educational programs, research endeavors, child advocacy, and community service in a manner consistent not only with state-of-the-art science but also with Judeo-Christian values.

### FACULTY

#### DISTINGUISHED PROFESSOR

David J. Baylink, MEDN, BCHM, ORTH

#### EMERITUS PROFESSORS

Theodore H. Goldman  
Eugene L. Petry  
J. Joseph Quilligan

#### PROFESSORS

John O. Archambeau, RDMN  
Stephen Ashwal, MEDN, NEUR  
Leonard L. Bailey, #SURG  
J. Bruce Beckwith, PATH, UROL  
B. Lyn Behrens  
Burton A. Briggs, ANES, SURG  
William P. Bunnell, ORTH  
Richard E. Chinnock, EMDN  
Douglas Deming  
Wayne K. Jacobsen, ANES  
Lawrence D. Longo, GYOB, PHSL  
John W. Mace  
Linda J. Mason, ANES  
Charles W. Slattery, BCHM  
Nidia R. Vyhmeister  
Lionel W. Young, RADS

#### RESEARCH PROFESSOR

Thomas A. Linkhart, BCHM

#### EMERITUS CLINICAL PROFESSOR

Willard R. Centerwall

#### CLINICAL PROFESSORS

George Fox  
Steven R. Gundry, SURG  
Charles J. Hyman

John L. Johnson

John P. Morris

Gerald Saks

#### ASSOCIATE PROFESSORS

Nancy J. Anderson, DERM  
D. Jeanne Andrews  
Antranik A. Bedros  
Jane Bork  
Terry W. Chin  
Edward Elmendorf  
Yvonne Fanous  
Elba E. S. Fayard  
Andrew O. Hopper  
Donald L. Janner  
Leela Job  
David S. Knierim, NEUS  
Marquelle J. Klooster  
Michael Kuhn  
Ranae L. Larsen  
Maria Lois-Wenzel  
J. David Moorhead, UROL, SURG  
Joan Morris  
Neda F. Mulla  
Pushpa Nowrangi, MEDN  
Ricardo L. Peverini  
Ravindra Rao  
Sharon K. Riesen  
Sarah M. Roddy, NEUR  
Shobha Sahney  
Ruchir Sehra  
Manoj C. Shah  
Clare M. Sheridan, EMDN  
Steven M. Yellon, PHSL, ANAT

#### ASSOCIATE RESEARCH PROFESSORS

Michael A. Kirby, PATH, ANAT  
Giuseppe Molinaro, MICR, PATH

**EMERITUS ASSOCIATE CLINICAL PROFESSORS**

Edwin F. Patton  
Clifton P. Rose  
Lawrence S. Siegel

**ASSOCIATE CLINICAL PROFESSORS**

Assaad N. Assaad  
Harbinder S. Brar  
Chul C. Cha  
Susan J. Clark  
Wallace Cleaves  
George D. Doroshow  
David Fox  
Bruce B. Grill  
Rauof A. Ibrahim  
D. Allen MacKenzie, ORTH  
Constance J. Sandlin  
Phisit Saphyakhajon  
Richard P. Tyler  
Merlin R. Zaske

**ASSISTANT PROFESSORS**

Shamel A. Abd-Allah  
Daniel Abraha  
Leyla Akanli  
Besh R. Barcega, EMDN  
Marti Baum  
Francis D. W. Chan  
Victor B. Chu  
Drew Cutler  
Anthony Dajnowicz  
Althea P. Daniels  
Laurie L. Diem  
Wise M. Fargo  
Nancy R. Fernando  
Laura Funkhouser  
Maria C. Garberoglio  
Matthew F. Gross  
Agnes S. Guban  
Ernie Guzman  
Eba H. Hathout  
Joya Heart  
Albert Kheradpour  
Soo Youn Kim  
Mary Lam  
Carol A. Lau, ANES  
Michelle H. Loh  
Mitzi Loubriel  
Fataneh F. Majlessipour  
Ravi Mandapati, MEDN  
Lisel A. Mathias  
Farrukh Mirza  
Inger L. Olson  
John E. Peterson, Jr., SD  
Rebeca E. Piantini  
Emmeline Pulido  
Charles D. Pumphrey  
Martha E. Rivera  
George A. Segura  
Tamara M. Shankel, MEDN  
Thomas S. Sherwin, EMDN  
James F. Shook, ORTH  
Catherine A. Tan

Diana L. Trupp  
Vasanti Voleti  
Karen A. Winston  
George S. Yanni  
Larry Yin  
Guy Young

**ASSISTANT CLINICAL PROFESSORS**

Daniel H. Aldana  
Freddie B. Balgama  
James H. Belote  
Dilip R. Bhatt  
Danielle L. Borut  
Samuel A. Bruttomesso  
Hong Bui  
William M. Clover  
Ernesto Cruz  
Vo Minh Dai  
Mary L. Gandy  
Kelley W. George  
Herbert A. Giese, Jr.  
Joseph K. Hindman  
Wen-Hsiung L. Huang  
Thomas A. Kaleita  
Julie P. Mann  
Hilario A. Marilao  
Frederick J. Martin  
James Mason  
Jorge R. Mazlumian  
Ronald L. Mellinger  
Robert E. Meyer, Jr.  
James S. Miller  
Jonathan J. Mthombeni  
James L. Munson  
Madeline N. Ngo  
Olusola A. Oyemade  
Ronald G. Pearce  
Deepak K. Rajpoot  
Isreal Rubenstein  
Praful C. Shah  
Lawrence D. Sharpe  
Marshall J. Spector  
Norman Y. Sogioka, SURG  
Steven J. Trenkle, PATH  
Pranee Tulyathan  
Nestor E. Vain  
Huu Dinh Vo  
Hansen Wang, SURG  
Sherri E. Yhip

**INSTRUCTORS**

Borhaan S. Ahmad  
Heather A. Carriedo  
Alexandra M. Clark  
H. Todd Eachus  
Janet E. Halverson  
Olga Kalbermatter  
Chalmers D. McClure III, NEUR  
Helen Newsom  
Lanny Nizar-Oentojo  
Jonnel W. Pomeroy  
Vanessa M. Pullen  
Francisco Rincon  
Stanford K. Shu

Mohammad S. Siddiqui  
Angela F. Slaughter  
Dora T. Tung  
Daved W. van Stralen, EMDN  
Traci H. Williams  
Kim Yee

**ADJUNCT PROFESSOR**  
Sanford Schneider, MEDN, NEUR

**ADJUNCT INSTRUCTOR**  
Harvey Heidinger

## COURSES

**PEDS 599 Pediatrics Directed Study (arranged)**

**PEDS 701 Pediatrics Clerkship (480 hours)**

**PEDS 821 Pediatrics Subinternship/ICU  
(60-240 hours)**

**PEDS 822 Pediatrics Intensive Care (120 hours)**

**PEDS 891 Pediatrics Elective (arranged)**

## **MDCJ 524, 525, 526 Pathophysiology and Applied Physical Diagnosis (\_\_, 5, 4)**

Two parallel components that bridge the preclinical curriculum to the clinical curriculum:

- (1) Pathophysiology lectures build upon the courses in organ pathology and physiology, introduce students to the pathophysiologic principles underlying mechanisms of disease, and emphasize the application of these principles to a variety of new situations that require problem solving and synthesis in a clinical context.
- (2) Practical experience develops and applies skills that build on the first-year sequence in physical diagnosis.

Prerequisite: MDCJ 522, 523.

## **MDCJ 701 Orientation to Clinical Medicine (240 hours)**

Builds on the second-year course MDCJ 525, 526 Pathophysiology and Applied Physical Diagnosis. Provides the knowledge, skills, values, and attitudes necessary to facilitate a smooth transition from the preclinical to the clinical curriculum.

## **MDCJ 821 Ambulatory Care Clerkship (240 hours)**

Interdisciplinary, four-week rotation designed to broaden exposure to community-based health care done mainly in primary-care clinics. Clinical experience in areas not otherwise covered in the curriculum: dermatology and STDs, clinical preventive medicine, and integrative/whole-person care in ambulatory and managed-care settings.



# PHYSICAL MEDICINE AND REHABILITATION

MURRAY E. BRANDSTATER, Chair

The Department of Physical Medicine and Rehabilitation was established to develop clinical services in rehabilitation medicine and to offer resources for teaching and research in the field of rehabilitation. These clinical and academic activities cover a wide spectrum of clinical medicine but have as a central basis the notion that rehabilitation is a complex process involving not only multiple disciplines but also consideration of the patient in the broader context of the family and community. The psychosocial-spiritual aspects of rehabilitation complete the whole-person focus, thus providing an opportunity for faculty and students to observe and experience patient care while meeting the goals and objectives of the School of Medicine.

## FACULTY

### PROFESSOR

Murray E. Brandstater

### ASSOCIATE CLINICAL PROFESSOR

Victor Schell

### ASSISTANT PROFESSORS

Moon S. Bae  
 Beryl H. Bull  
 Anne T. Cipta, ANES  
 Divakara Kedlaya  
 Esther C. Lee  
 Artemio R. Martin  
 Lowell W. Reynolds, ANES  
 Lori A. Shutter, NEUR  
 Scott R. Strum  
 Jon E. Ween, NEUR

### ASSISTANT CLINICAL PROFESSORS

Bradley A. Eli  
 Gerald R. Goodlow

Yvette A. Holness  
 Robertus H. Kounang  
 Jien Sup Kim  
 Jonathan C. Lee  
 Felice L. Loverso, NEUR  
 Joseph A. Narloch  
 Hanna O. Sanders

### INSTRUCTORS

Karl B. Barner  
 Michael J. Davidson

### CLINICAL INSTRUCTOR

Kevan Z. Craig

## COURSES

PMRH 891 Physical Medicine and Rehabilitation  
 Elective (arranged)

# PHYSIOLOGY AND PHARMACOLOGY

LAWRENCE C. SOWERS, *Acting Chair*

Upon completion of the physiology course, the student will have an understanding of the basic concepts related to the cardiovascular, respiratory, renal, gastrointestinal, and endocrine systems appropriate to current clinical application. As much as is possible, the integration of functions between the various systems is emphasized. Neurophysiology is presented separately as an integrated course involving neuroanatomy and histology. The student will also be oriented to research needed on many unsolved problems in physiology.

Likewise in pharmacology, students will be able to describe the principal concepts of drug action and safety; recognize and classify the drugs commonly used in the practice of medicine; and describe the major aspects of and concepts relating to their actions, mechanism(s) of action, disposition, major side effects, and uses. Students will also have an introductory understanding of the application of this knowledge to clinical cases.

## FACULTY

### PHYSIOLOGY

#### DISTINGUISHED PROFESSORS

W. Ross Adey, MEDN, NEUR  
Lawrence D. Longo, GYOB, PEDS

#### PROFESSORS

Philip J. Chan, GYOB  
Charles A. Ducsay  
William H. Fletcher, ANAT  
Raymond D. Gilbert, GYOB, ANAT  
David A. Hessinger, PHRM, BCHM  
J. Mailen Kootsey  
John Leonora, BCHM, MEDN  
William J. Pearce, BCHM  
Gordon G. Power, GYOB, MEDN  
Robert W. Teel  
Steven M. Yellon, PEDS, ANAT

#### RESEARCH PROFESSOR

Subbaraman Mohan, MEDN, BCHM

#### EMERITUS ASSOCIATE PROFESSOR

Elwood S. McCluskey

#### ASSOCIATE PROFESSORS

Daisy D. DeLeon  
Marino A. DeLeon  
Ramon R. Gonzalez, Jr.  
Raymond G. Hall, Jr.  
Charles Kean, SURG  
George Maeda  
Leonard S. Werner, MEDN

#### ASSOCIATE RESEARCH PROFESSOR

Ahmed Ally

#### ASSISTANT RESEARCH PROFESSORS

Greg G. Geary  
Jean M. Tieche  
Glyne U. Thorington

### PHARMACOLOGY

#### DISTINGUISHED EMERITUS PROFESSOR

Ian M. Fraser

#### EMERITUS PROFESSORS

Marvin A. Peters  
Allen Strother  
Bernard E. Tilton

#### PROFESSORS

John Buchholz  
Ralph E. Cutler, MEDN  
David A. Hessinger, BCHM, PHSL  
Lubo Zhang

#### ASSOCIATE PROFESSOR

C. Raymond Cress

#### ASSOCIATE RESEARCH PROFESSOR

Beatrice M. Maier

#### ASSISTANT PROFESSORS

Rhonda P. Davis  
Lincoln P. Edwards

#### ADJUNCT PROFESSOR

Sue P. Duckles

**COURSES****PHYSIOLOGY****UNDERGRADUATE**

**PHSL 250 Physiology-Pathophysiology SN (4)**  
Physiology of the body processes. Designed for the undergraduate nursing program.

**PHSL 305 Physiology AH Medical Technology and Dietetics (3)**

**PHSL 307 Physiology AH PT (4)**

**PHSL 309 Neurophysiology PHTH (3)**

**DENTISTRY**

**PHSL 501 Neurophysiology DN (3)**  
Presentation of basic principles in neurophysiology to enhance understanding of normal and pathophysiological function.

**PHSL 701 Physiological Systems (5)**  
Biochemical and physiological bases of normal function. Lecture and demonstration illustrating physiological principles in animals and man. The Department of Biochemistry and the Department of Physiology and Pharmacology participate.

**PHSL 741 Physiology of Bone (1)**  
Nature of bone mineral and matrix; bone biomechanics and mineralization; bone growth, healing and remodeling; pathological bone resorption; bone calcium homeostasis; dynamics of bone adaptation.

**MEDICINE**

**MDCJ 541, 542 Medical Neuroscience SM (71 hours) (4, 4)**

Within a clinical context, fundamentals of neuroanatomy and neurophysiology integrated with principles of the human nervous system.

**PHSL 502 Basic Neurophysiology (3)**

**PHSL 504 Physiological Systems of the Human Body (5)**

**PHSL 505 Homeostatic Mechanisms of the Human Body (4)**

**PHSL 511, 512 Physiology SM (1, 5, 4)**  
Presentation of normal functions of the various systems of the human body, designed to provide a proper understanding of mechanisms of disease, with their concomitant pathophysiology. Lecture, audiovisual demonstrations, computer models, and limited animal studies provide knowledge of the physiological principles.

**PHSL 521 Medical Physiology GS (1)**

**PHSL 522 Medical Physiology GS (5)**

**PHSL 523 Medical Physiology GS (3)**

**PHSL 535 Comparative Physiology (5)**

**PHSL 538 Neuroscience (4)**

**PHSL 542 Signal Transduction (3)**

**PHSL 543 Cell-Cell Interaction (3)**

**PHSL 567 Respiratory Physiology (3)**

**PHSL 569 Oxygenation of the Fetus and the Newborn (2)**

**PHSL 576 Vascular Smooth Muscle (3)**

**PHSL 585 Endocrinology (3)**

**PHSL 589 Great Books in Physiology (1)**

**PHSL 595 Readings in Physiology (1-4)**

**PHSL 596 Readings in Comparative Physiology (1)**

**PHSL 597 Great Books in Physiology (1)**

**PHSL 701 Physiological Systems (5)**

**PHSL 741 Physiology of Bone (1)**

**PHSL 891 Physiology Elective (arranged)**

**GRADUATE**

The following courses are offered in fulfillment of requirements for the Master of Science and the Doctor of Philosophy degrees in physiology. This program is outlined in the BULLETIN of the Graduate School.

**PHSL 501 Neurophysiology DN (3)**

**PHSL 502 Basic Neurophysiology (3)**

**PHSL 503 The Differentiated Cell (10)**

**PHSL 525 Current Concepts in Cellular and Molecular Neural-Endocrine Interactions (3)**

**PHSL 533, 534 Physiology I, II (4, 3)**

**PHSL 537 Neuroscience (7)**  
Prerequisite to PHSL 511, 512.

**PHSL 541 Cell and Molecular Biology (4)**

**PHSL 544 Cell and Molecular Neurobiology (3)**

Courses 550-587 are advanced lecture and conference courses exploring the latest concepts in the respective area.

Prerequisite or concurrent: PHSL 511, 512; or the equivalent.

**PHSL 550 Properties of the Nervous System (3)**

**PHSL 553 Applied Electronics for the Basic Sciences (4)**

**PHSL 555 Biology of Cancer, Lecture (3)**

**PHSL 556 Biology of Cancer, Laboratory (2)**

**PHSL 558 Physiology of Exercise and Inactivity (3)**

**PHSL 560 Physiology of Bone (3)**

- PHSL 577 Cardiac Physiology (3)
- PHSL 578 Vascular Physiology (3)
- PHSL 584 Readings in Neurophysiology (2)
- PHSL 587 Physiology of Reproduction (2)
- PHSL 604 Perinatal Biology Graduate Seminar (1)
- PHSL 605 Integrative Biology Graduate Seminar (1)
- PHSL 694 Special Problems in Physiology (1-4)
- PHSL 697 Research (arranged)
- PHSL 698 Thesis (arranged)
- PHSL 699 Dissertation (arranged)

## PHARMACOLOGY

### UNDERGRADUATE

**PHRM 411 Pharmacology DH (2)**  
 Uses, actions, and potential toxic effects of medications most frequently administered to or used by dental patients.

### DENTISTRY

**PHRM 501 Pharmacology and Therapeutics SD (4)**  
 Principles of drug action. Systematic consideration of the pharmacology, clinical applications, and toxicities of the major drugs used in dentistry. Computerized demonstrations illustrating the effects of drugs.

**PHRM 503 Clinical Pharmacology in Dentistry (2)**  
 Use of medications in the treatment of dentally related diseases, and the potential impact of such diseases on total patient care.

### MEDICINE

**PHRM 511, 512 General and Systematic Pharmacology SM (86 hours) (5, 3)**  
 Principles of drug action, drug receptors, absorption and fate of drugs, drug toxicity, and drug development. Systematic consideration of the pharmacology and therapeutic value of the drugs used in medicine. Clinical case conferences, demonstrations, simulations, and laboratory exercises illustrating the uses and effects of drugs in humans or animals.

**PHRM 891 Pharmacology Elective (arranged)**

## GRADUATE

The following courses are offered in fulfillment of requirements for the Master of Science and the Doctor of Philosophy degrees in pharmacology. This program is outlined in the BULLETIN of the Graduate School.

- PHRM 534 Topics in Pharmacology for Dentistry (2)
- PHRM 535 Clinical Pharmacology (3)
- PHRM 544 Topics in Advanced Pharmacology (3)
- PHRM 545 Laboratory in Advanced Pharmacology (1-2)
- PHRM 554 Neuropharmacology (4)
- PHRM 555 Laboratory in Neuropharmacology (1)
- PHRM 564 Cardiovascular and Renal Pharmacology (3)
- PHRM 565 Laboratory in Cardiovascular and Renal Pharmacology (1)
- PHRM 574 Chemotherapy (3)
- PHRM 575 Laboratory in Chemotherapy (1)
- PHRM 584 Drug Metabolism and Biochemical Pharmacology (3)
- PHRM 585 Laboratory in Drug Metabolism and Biochemical Pharmacology (1)
- PHRM 586 Toxicology (3)
- PHRM 605 Integrative Biology, Graduate Seminar (1)
- PHRM 684 Special Problems in Pharmacology (2-6)
- PHRM 697 Research (arranged)
- PHRM 698 Thesis (arranged)
- PHRM 699 Dissertation (arranged)





# PSYCHIATRY

GEORGE T. HARDING IV, Chair

WILLIAM H. MCGHEE, Vice Chair

**T**he Department of Psychiatry provides educational programs that include clinical training and research for medical students, psychiatry residents, and psychiatry fellows.

During the first and second years, psychiatry is taught as an interdisciplinary course that consists of lectures and demonstrations covering a broad range of human behavioral determinants—including the biology, psychology, sociology, and psychopathology of behavior. The wholistic concept of behavior, including its spiritual components, is also stressed.

The third-year, six-week psychiatry clerkship includes: five weeks divided between two psychiatry treatment sites; and one week at an addiction treatment site. These clerkship experiences offer broad and varied training in the treatment of psychiatric problems of adults and children. Students also participate in an interactive, case-based seminar series.

Fourth-year medical students have the opportunity to take electives with psychiatry faculty in child and adult settings as well as an intensive reading/discussion course in religion and psychiatry.

## FACULTY

### PROFESSORS

George T. Harding IV  
Mark G. Haviland  
Benjamin Kovitz  
William H. McGhee

### EMERITUS CLINICAL PROFESSOR

Jack W. Provonsha

### CLINICAL PROFESSORS

Louis P. Bozzetti, Jr.  
Clarence Carnahan, Jr.  
Durand F. Jacobs  
August Kasper  
Charles Merideth  
David H. Whitbread

### ASSOCIATE PROFESSORS

Julie M. Albert  
Donald L. Anderson  
Wm. G. Britt III  
George W. Christison  
Monika Gierz  
Jerry D. Hoyle  
Donald J. Kurth

James P. MacMurray  
William G. Murdoch  
William G. Roth  
Diana Simon

### ASSOCIATE CLINICAL PROFESSORS

Michael A. Cummings  
Harvey W. Oshrin  
John P. Riesenman  
Deane L. Wolcott

### ASSISTANT PROFESSORS

Karole S. Avila  
James F. Dyer, Jr.  
Carlos R. Fayard  
Cameron J. Johnson  
Y. William Kim  
Henry L. Lamberton  
Leigh A. Lindsey  
Regina G. Liwnicz  
James S. Mauer  
Jay M. Otero  
Mary Ann Schaepper  
Anthony S. Shin  
Ahmad K. Tarar  
E. Ray Verde  
Ronald Warnell

**ASSISTANT CLINICAL PROFESSORS**

Louis R. Alvarez  
Nenita Belen  
Venkatesh G. Bhat  
Andrew C. Blaine  
Daniel A. Brooks  
Lorna S. Carlin  
Caron S. I. Christison  
Richard T. Cranston  
Kari M. Enge  
Mubashir A. Farooqi  
Molly L. Gallacher  
Raafat W. Girgis  
Rick L. Jenkins  
Kevin M. Kinback  
Patricia M. Kirkish  
George Kopiloff  
Maher S. Kozman  
Larry C. Lawrence  
Anne E. Linton  
Michael B. Maskin  
Magdi Mikhael  
Kenneth Miller  
Louis H. Monty  
Faye D. Owen  
Bipin L. Patel  
George J. Proctor  
Bonnie S. Quinton  
Patricia J. D. Roth  
David E. Schultz  
Michael D. Schultz  
Gregg A. Sentenn  
William R. Simpson  
Daniel Skenderian  
John C. Stockdale

John T. Thiel  
Sul R. O. Thorward  
April Wursten

**INSTRUCTORS**

Greta M. Herbes  
James P. Johnson  
Winifred J. Klop

**CLINICAL INSTRUCTOR**

Melvin L. Sajid

**COURSES**

**PSYT 511 Understanding Your Patient (3)**

**PSYT 512 Human Behavior (4)**

Interdisciplinary course consisting of lectures and demonstrations covering a broad range of human behavioral determinants—including the biology, psychology, sociology, and psychopathology of behavior. Emphasizes the wholistic concept of behavior.

**PSYT 514, 515, 516 Psychopathology (52 hours) (5)**

**PSYT 599 Directed Elective Study (240 hours)**

**PSYT 701 Psychiatry Clerkship (360 hours)**

**PSYT 891 Psychiatry Elective (arranged)**

Opportunity for intensive learning experience in either a research area or a clinical area of the student's choice.



# PUBLIC HEALTH AND PREVENTIVE MEDICINE

**RICHARD H. HART, Chair**

**T**he School of Medicine's Department of Public Health and Preventive Medicine utilizes the faculty of the School of Public Health to carry out its functions. These responsibilities include the teaching of medical students and preventive medicine residents, conducting research in appropriate areas, and providing a wide variety of clinical services. The School of Public Health's Center for Health Research, Center for Health Promotion, and Center for Health and Development all provide valuable services for the School of Medicine. The Preventive Medicine Faculty Practice Group functions primarily out of the Center for Health Promotion, the Social Action Community (SAC) Health System clinics, and selected university health services.

## FACULTY

### PROFESSORS

David Abbey  
Gary E. Fraser, MEDN  
Richard H. Hart  
Patricia K. Johnston  
Synnove M. F. Knutsen  
Susanne B. Montgomery

### ASSOCIATE PROFESSORS

David T. Dyjack  
Linda H. Ferry, FMDN  
Jayakaran S. Job  
Raymond Knutsen  
Jenifer J. Mason

### ASSOCIATE CLINICAL PROFESSORS

Ronald P. Hattis  
Eric Ngo  
Thomas J. Prendergast  
Anthony B. Radcliffe

### ASSISTANT PROFESSORS

Daniel Alves  
Mihran H. Ask, MEDN  
Terrence L. Butler  
Bonnie I. Chi-Lum  
T. Allan Darnell  
Ann L. Dew  
Kenneth W. Hart  
Bessie L. Hwang  
Suzanne Karefa-Johnson  
Warren R. Peters  
Floyd E. Petersen  
Pramil N. Singh

### ASSISTANT CLINICAL PROFESSORS

Frederick M. Bischoff  
Arlene F. Braham  
Douglas C. Richards  
Bruce E. Smith  
Larry L. Thomas

### ASSISTANT RESEARCH PROFESSOR

Lee S. Berk, PATH

### ADJUNCT PROFESSOR

P. William Dysinger

### ADJUNCT ASSOCIATE PROFESSOR

Gilbert M. Burnham

### ADJUNCT ASSISTANT PROFESSORS

Edward J. Gallagher  
Gary H. Harding

## COURSES

**PRVM 513 Preventive Medicine (3)**

**PRVM 515 Preventive Medicine (3)**

**PRVM 516 Preventive Medicine (2)**

**PRVM 521, 522 Information Sciences and Population-Based Medicine (3, 3)**

Introduction to biostatistics, epidemiology, and nutrition issues. Discussion of techniques used in analyzing research and journal articles.

**PRVM 799 Clinical Selective in Preventive Medicine (120-600 hours)**

**PRVM 891 Preventive Medicine Elective (arranged)**

**MDCJ 550, 551, 552, (3, 2, 2) Evidence-Based Medicine and Information Sciences**

Designed for freshman medical students. Introduces basic concepts of evidence-based medicine to help facilitate lifelong, self-directed learning. Describes the challenges of the information needs of the 21st-century physician. Teaches a process by which students can efficiently and effectively acquire the answers to their clinical questions and apply them to the care of the patients they see. Teaching methodologies include large-group didactic presentations; small-group discussions; and self-study, on-line exercises. Sets the foundation for an ongoing, lifelong learning process. (Replaces MDCJ 545, 546, 547 effective August 5, 2002.)

**MDCJ 701 Orientation to Clinical Medicine (240 hours)**

Builds on the second-year course MDCJ 525, 526 Pathophysiology and Applied Physical Diagnosis. Provides the knowledge, skills, values, and attitudes necessary to facilitate a smooth transition from the preclinical to the clinical curriculum.

**MDCJ 821 Ambulatory Care Clerkship (240 hours)**

Interdisciplinary, four-week rotation designed to broaden exposure to community-based health care done mainly in primary-care clinics. Clinical experience in areas not otherwise covered in the curriculum: dermatology and STDs, clinical preventive medicine, and integrative/whole-person care in ambulatory and managed-care settings.

**COMPLEMENTARY DEGREES THROUGH SCHOOL OF PUBLIC HEALTH**

**C**ourses are offered in fulfillment of requirements for the Master of Public Health and Doctor of Public Health degrees. These programs are outlined in the BULLETIN of the School of Public Health.

# RADIATION MEDICINE

**JERRY D. SLATER, Chair**

**T**he purpose of the Department of Radiation Medicine is to provide superior patient services, education, and research using methods supportive of the Loma Linda University School of Medicine.

## FACULTY

### EMERITUS PROFESSOR

Ivan R. Neilsen

### PROFESSORS

John O. Archambeau, PEDS, ANAT  
Alain L. Fymat, RADS  
Daila S. Gridley, MICR, BCHM  
Richard P. Levy  
Daniel W. Miller  
James M. Slater  
Jerry D. Slater  
Stanislav Vatnitsky

### CLINICAL PROFESSOR

Fang Jen Lin

### ASSOCIATE PROFESSORS

Bijan Arjomandy  
David A. Bush  
Gregory A. Nelson  
Baldev R. Patyal  
William Preston  
Carl J. Rossi, Jr.  
Leslie T. Yonemoto

### ASSISTANT PROFESSORS

George B. Coutrakon  
Janet M. Hocko  
Case H. Ketting  
Ray Lin  
Lilia N. Loreda  
Albert C. Mak

Michael Moyers  
Ivan Namihas  
W. James Nethery  
Waylene W. Swensen

### ASSISTANT RESEARCH PROFESSOR

Andre Obenaus, RADS

### ASSISTANT CLINICAL PROFESSORS

Christopher Gilman  
David W. Mantik  
Ernest Ngo  
Reinhard W. Schulte

### INSRUCTORS

B. Rodney Jabola  
Xiao Wen Mao  
Michael J. Pecaut

### ADJUNCT ASSOCIATE PROFESSOR

Jamie R. Milligan

### ADJUNCT RESEARCH PROFESSOR

Eleanor A. Blakely

## COURSES

**RDMN 799 Clinical Selective in Radiation Oncology (120 hours)**

**RDMN 891 Radiation Medicine Elective (arranged)**



## RADIOLOGY

DAVID B. HINSHAW, JR., Chair

### DIVISIONS

#### DIAGNOSTIC RADIOLOGY

GREGORY E. WATKINS, Head

#### COMMUNITY RADIOLOGY

RICHARD D. DUNBAR, Head

#### COMPUTED BODY TOMOGRAPHY

PHIROZE BILLIMORIA, Head

#### OUTPATIENT DIAGNOSTIC RADIOLOGY (FMO)

RICHARD J. TULLY, Head

#### DIAGNOSTIC ULTRASOUND

##### INPATIENT ULTRASOUND

GLENN A. ROUSE, Head

##### OUTPATIENT ULTRASOUND

GERALD GRUBE, Head

#### GENERAL ANGIOGRAPHY

DOUGLAS C. SMITH, Head

#### INTERVENTIONAL RADIOLOGY

FRANK C. TAYLOR, Head

#### MAGNETIC RESONANCE SCIENCES

DAVID B. HINSHAW, JR., Head

#### MUSCULOSKELETAL

INGRID KJELLIN, Head

#### NEURORADIOLOGY

DANIEL K. KIDO, Head

#### NUCLEAR MEDICINE

GERALD A. KIRK, Head

#### PEDIATRIC RADIOLOGY

LIONEL W. YOUNG, Head

The purposes of the Department of Radiology are to provide:

1. Excellent patient services through imaging studies, special diagnostic procedures, and interventional procedures.
2. Educational programs that include research and clinical training for technologists, dosimetrists, physicists, medical students, postdoctoral fellows, radiology residents, and fellows.
3. Research support through laboratory facilities and clinical facilities.

**FACULTY****EMERITUS PROFESSOR**

Walter L. Stilson

**PROFESSORS**

Phiroze Billimoria  
 Alain L. Fymat  
 Geoffrey A. Gardiner  
 David B. Hinshaw, Jr.  
 Daniel K. Kido  
 Joseph G. Llaurodo  
 Eloy E. Schulz  
 Douglas C. Smith  
 Frank C. Taylor  
 Joseph R. Thompson  
 Beverly Wood  
 Lionel W. Young, PEDS

**CLINICAL PROFESSORS**

Peggy J. Fritzsche  
 Anton Hasso  
 Isaac Sanders

**ASSOCIATE PROFESSORS**

Dale R. Broome  
 Richard D. Dunbar  
 Bernard W. Hindman  
 Barbara Holshouser  
 Gerald A. Kirk  
 Glenn A. Rouse  
 Richard J. Tully  
 Gregory Watkins

**ASSOCIATE CLINICAL PROFESSORS**

Patrick J. Bryan  
 Arnold Z. Geller

**ASSISTANT PROFESSORS**

Bruce T. Austin  
 Won-Chul Bae  
 Donald T. Barnes  
 William C. Buss  
 Pairoj S. Chang  
 Liliane H. Gibbs  
 Gerald Grube  
 Samuel J. Ing  
 Shannon Kirk  
 Ingrid B. Kjellin  
 Everett Kuester  
 George Y. Luh  
 Jon M. Miller  
 Shailendri E. Philip  
 Ved Prakash  
 Moussa Raiszadeh

Hans Saaty  
 James B. Slater, RDMN  
 Karen A. Tong  
 Sabrina I. W. Ward  
 Thomas E. Wiley  
 Nathaniel D. Wycliffe

**ASSISTANT RESEARCH PROFESSOR**

Andrew Obenaus, RDMN

**ASSISTANT CLINICAL PROFESSORS**

John T. Blackwelder  
 Christopher D. Cumings  
 David Dee, Jr.  
 Pearse Derrig  
 Edward Gabriel  
 Kathlene E. Guth  
 William G. Jones  
 Monika L. Kief-Garcia  
 Jeanine A. McNeill  
 Michael Neglio  
 Garry D. Roghair  
 David E. Scafidi  
 Joseph S. Unis  
 James Wolfson  
 Alix Vincent

**ADJUNCT PROFESSOR**

E. Mark Hackie

**ADJUNCT ASSISTANT PROFESSOR**

Sheri L. Harder

**COURSES****RADS 511 Radiation Sciences (participation)****RADS 701 Radiology Clerkship (80 hours)****RADS 799 Clinical Selective in General  
Radiology (120 hours)****RADS 821 Radiology Clerkship (3.6)****RADS 891 Radiology Elective (arranged)****MDCJ 701 Orientation to Clinical Medicine  
(240 hours)**

Builds on the second-year course MDCJ 525, 526 Pathophysiology and Applied Physical Diagnosis. Provides the knowledge, skills, values, and attitudes necessary to facilitate a smooth transition from the preclinical to the clinical curriculum.

## SURGERY

LEONARD L. BAILEY, Chair

J. DAVID KILLEEN, Vice Chair

### DIVISIONS

#### CARDIOTHORACIC

ANEES RAZZOUK, Head

#### GENERAL

RICHARD D. CATALANO, Head

#### HEAD AND NECK (Otolaryngology)

GEORGE D. CHONKICH, Head

#### NEUROSURGERY

AUSTIN R. T. COLOHAN, Head

#### ORAL

KEITH HOFFMAN, Head

#### PEDIATRIC

DONALD C. MOORES, Interim Head

#### PLASTIC AND RECONSTRUCTIVE

ROBERT A. HARDESTY, Head

#### UROLOGY

H. ROGER HADLEY, Head

#### VASCULAR

J. DAVID KILLEEN, Head

**T**he Department of Surgery is in harmony with the stated purposes and philosophy of the School of Medicine, Loma Linda University.

The purposes of the Department of Surgery are to:

1. Provide the highest standard of surgical patient care.
2. Maintain educational programs in the surgical disciplines for medical students, residents, and fellows.
3. Provide facilities for laboratory and clinical research in the areas of surgical interest.



**FACULTY**

**CARDIOTHORACIC**

**EMERITUS PROFESSOR**  
Ellsworth E. Wareham

**PROFESSORS**  
Leonard L. Bailey, PEDS  
P. Richard Carter  
Anees J. Razzouk

**CLINICAL PROFESSORS**  
Changwoo Ahn  
Steven R. Gundry, PEDS

**ASSOCIATE CLINICAL PROFESSORS**  
Alfredo L. Rasi  
Edwin E. Vyhmeister

**ASSISTANT PROFESSORS**  
Molly K. McAfee  
Nan Wang

**ASSISTANT CLINICAL PROFESSORS**  
Michael del Rio  
George Kafrouni  
Michael Wood

**GENERAL**

**EMERITUS PROFESSORS**  
Bruce W. Branson  
David B. Hinshaw, Sr.  
Jerrold K. Longersbeam  
Louis L. Smith  
Ralph J. Thompson

**PROFESSORS**  
Burton A. Briggs, ANES, PEDS  
Antonio E. Robles

**CLINICAL PROFESSORS**  
M. C. Theodore Mackett  
Clifton D. Reeves

**EMERITUS ASSOCIATE PROFESSORS**  
Conrad J. Baumgartner  
Irving A. Fields  
David Miller  
Daniel A. Mitchell, Jr., ANAT  
Samuel L. Perzik  
Frank A. Rogers

**ASSOCIATE PROFESSORS**  
Pedro Baron  
Richard D. Catalano, EMDN  
Waldo Concepcion  
Carlos A. Garberoglio  
Charles Kean, PHSL, SD  
J. David Moorhead, UROL, PEDS  
Thomas E. O'Callaghan  
Okechukwu N. Ojogho  
Arnold D. Tabuenca  
James L. Webster

**ASSOCIATE CLINICAL PROFESSORS**  
Duane S. Bietz  
Appannagari Gnanadev  
Janet H. Ihde  
Faisal A. Khan  
Paul H. Trotta

**ASSISTANT PROFESSORS**  
Samuel Cemaj  
Samir D. Johna  
Hector D. Ludi  
Sharon S. J. Lum  
Okechukwu N. Ojogho  
Mark E. Reeves  
Jorge L. Rivera, FMDN  
William Wagner, ANAT



**ASSISTANT CLINICAL PROFESSORS**

Paul Aka  
Linbrook Barker  
Lawrence Braslow  
Lori J. Chow  
Clifford C. Eke  
Fekede Gemechu  
Lawrence A. Harms  
Lawrence E. Heiskell  
Simon Keushkerian  
Lester L. Mohr  
Robert Pereyra  
John E. Prichard  
Harry C. Prout  
Marc D. Rudich  
James D. Simpson  
Matthew S. Tan  
Edward H. Umgelter  
David L. Vannix  
Robert S. Vannix  
Joseph J. Verska  
Hansen Wang  
M. Charles Warren  
David B. Welsh, MEDN

**INSTRUCTORS**

Jack L. Bennett  
Christian Bianchi  
Esmond Chi  
Virginia S. S. Huang

**ADJUNCT PROFESSOR**

Carlos Duran

**ADJUNCT ASSOCIATE PROFESSOR**

Carlos A. Balarezo

**COURSES**

**SURG 599 Surgery Directed Study (240 hours)**

**SURG 701 Surgery Clerkship (720 hours)**

Includes one week on each service: anesthesiology, emergency medicine, neurosurgery, otolaryngology, ophthalmology, orthopaedic surgery, plastic surgery, and urology; and one month of general surgery.

**SURG 821 Surgery Clerkship (240 hours)**

Includes one-month service on general surgery.

**SURG 822 Surgery ICU (120 hours)**

Includes two-week service on a surgical intensive-care unit.

**SURG 891 Surgery Elective (arranged)**

May include pediatric surgery, vascular surgery, trauma surgery, general surgery, cardiothoracic surgery, plastic surgery, neurosurgery, otolaryngology, surgical intensive care, and urology.

**HEAD AND NECK (Otolaryngology)**

**EMERITUS PROFESSOR**

Leland R. House

**PROFESSORS**

Linda D'Antonio  
George H. Petti, Jr.

**CLINICAL PROFESSORS**

Timothy Jung  
Jack L. Pulec

**ASSOCIATE PROFESSORS**

George D. Chonkich  
Charles E. Stewart III

**EMERITUS ASSOCIATE PROFESSOR**

Robert P. Rowe

**ASSOCIATE CLINICAL PROFESSORS**

Stewart Fordham  
George C. Gay  
Elmer W. Lorenz

**ASSISTANT PROFESSORS**

Johnny Arruda  
John Y. G. Kim  
Mark Rowe  
Alfred A. Simental  
Nathaniel Wycliffe, RADS

**ASSISTANT CLINICAL PROFESSORS**

James A. Heinrich  
Richard C. Rajaratnam

**INSTRUCTOR**

David G. McGann

**COURSES**

**SURG 821 Surgery Clerkship (participation)**

**OTOL 891 Otolaryngology Elective (arranged)**

**NEUROSURGERY****EMERITUS PROFESSORS**

Lloyd A. Dayes  
Shokei Yamada

**PROFESSORS**

Austin R. T. Colohan  
Wolff M. Kirsch, BCHM

**CLINICAL PROFESSOR**

Robert W. Rand

**RESEARCH PROFESSOR**

Findlay E. Russell

**ASSOCIATE PROFESSORS**

Traian T. Cojocaru  
Walter D. Johnson  
David S. Knierim, PEDS

**ASSOCIATE RESEARCH PROFESSOR**

Yong Hua Zhu

**ASSISTANT CLINICAL PROFESSORS**

Maged L. Abu-Assal  
Brian V. Curtis  
Joseph G. Hubbard  
Marvin A. Korbin  
Stanley A. Rouhe

**ADJUNCT PROFESSOR**

Robert Marohn

**ADJUNCT ASSOCIATE PROFESSOR**

Barry F. Pearce

**COURSES**

**SURG 821 Surgery Clerkship (participation)**

**NEUS 891 Neurosurgery Elective (arranged)**

**ORAL****PROFESSOR**

Philip J. Boyne

**ASSOCIATE PROFESSOR**

Keith Hoffman, PATH, SD

**ASSISTANT PROFESSOR**

Alan S. Herford

**PEDIATRIC****EMERITUS PROFESSOR**

H. Gibb Andrews, PEDS

**ASSOCIATE PROFESSORS**

Mark W. Fullerton  
Donald C. Moores

**ASSISTANT PROFESSORS**

Joanne E. Baerg, PEDS  
Gerald Gollin

**ASSISTANT CLINICAL PROFESSOR**

Olusola A. Oyemade

**PLASTIC AND RECONSTRUCTIVE****PROFESSORS**

Linda D'Antonio  
Robert A. Hardesty

**ASSOCIATE PROFESSORS**

Ben J. Childers  
Anil P. Punjabi  
Frank R. Rogers  
Thomas J. Zirkle, EMDN

**ASSOCIATE CLINICAL PROFESSOR**

Gordon H. Sasaki

**ASSISTANT PROFESSORS**

Subhas C. Gupta  
Brett E. Lehocky  
Duncan A. G. Miles  
Norman Y. Sogioka, PEDS

**ASSISTANT CLINICAL PROFESSORS**

Ghada Y. Afifi  
Wil Alexander, FR, FMDN  
Dennis K. Anderson  
Norberto E. Collins  
Grace Elias  
Virginia S. S. Huang

Robert Kachenmeister  
Sharon L. Kalina  
Kai Ming Li  
Daniel C. Mills  
Thomas F. Mitts  
J. Edson Price  
Charlotte Resch  
John B. Slayback

**CLINICAL INSTRUCTORS**

Daniel B. Kim  
Brian Eichenberg

**INSTRUCTORS**

Troy J. Andreason  
Chester Cheng  
Anil P. Punjabi

**UROLOGY**

**PROFESSORS**

J. Bruce Beckwith, PATH, PEDS  
H. Roger Hadley, SURG  
Herbert C. Ruckle  
Steven C. Stewart

**EMERITUS CLINICAL PROFESSOR**

A. Estin Comarr

**EMERITUS ASSOCIATE PROFESSOR**

Ben D. Massey

**ASSOCIATE PROFESSORS**

Marc A. Beagler  
Howard Landa  
Paul Lui  
J. David Moorhead, SURG, PEDS

**ASSOCIATE CLINICAL PROFESSOR**

Peggy J. Fritzche, RADS

**ASSISTANT CLINICAL PROFESSORS**

Victor C. Ching  
Joseph G. Hubbard  
Darrell W. Lang  
Sze C. Lee  
Edward S. Loh  
Kevin P. McLaughlin  
Winston H. Richards  
Robert R. Torrey, Jr.  
Richard J. Wilson

**INSTRUCTOR**

Christopher Tsai

**CLINICAL INSTRUCTOR**

Lyric Santiago

**COURSES**

**SURG 821 Surgery Clerkship (participation)**

**UROL 891 Urology Elective (arranged)**

**VASCULAR**

**EMERITUS PROFESSOR**

Louis L. Smith

**PROFESSORS**

John J. Bergan  
J. David Killeen

**ASSOCIATE PROFESSOR**

Jeffrey L. Ballard

**ASSOCIATE CLINICAL PROFESSOR**

James L. Webster

**ASSISTANT PROFESSORS**

Ahmed M. Abou-Zamzam  
Theodore H. Teruya

**ASSISTANT CLINICAL PROFESSORS**

Edward F. Levine  
Lester L. Mohr  
Robert Pereyra





# IV

## THE FACULTY OF RELIGION

Statement of Mission  
Courses

# The Faculty of Religion

## STATEMENT OF MISSION

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.

## COURSES

### FOUNDATIONAL STUDIES

#### THEOLOGICAL STUDIES

**RELF 706 Adventist Beliefs and Life (2)**  
Fundamental tenets of Seventh-day Adventist faith, and the lifestyle which such faith engenders.

**RELF 707 Medicine, Humanity, and God (2)**  
Role of the practitioner of medicine as a co-worker with God in the healing of humankind.

**RELF 716 God and Human Suffering (2)**  
Suffering and evil in relation to the creative and redemptive purposes of God for this world.

#### ETHICAL STUDIES

**RELE 704 Medicine and Ethics (2)**  
Introductory study of Christian medical ethics, emphasizing personal integrity of the physician, the process of moral decision making, and ethical problems facing contemporary medicine, such as abortion and euthanasia.

**RELE 714 Advanced Medical Ethics (2)**  
Advanced study of issues and cases in contemporary medical ethics.

### RELATIONAL STUDIES

#### APPLIED THEOLOGY

**RELR 725 Wholeness for Physicians (2)**  
Knowledge, values, attitudes, and skills contributing to the physician's goal of personal wholeness.

#### CLINICAL MINISTRY

**RELR 701 Orientation to Religion and Medicine (2)**  
Examination of the relationship between Scripture and the practice of medicine.

**RELR 775 Art of Integrative Care (2)**  
The integration of psychosocial and spiritual care in the clinical setting.

### ADDITIONAL COURSE OPTIONS

Additional religion courses are available as electives. Please see the Faculty of Religion BULLETIN, which may be obtained from the Office of the Dean of the Faculty of Religion.



# V

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### FINANCIAL AFFAIRS AND PLANT

#### MANAGEMENT

Gary Nelson, Assistant Dean

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##### Children's Hospital

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#### Jerry L. Pettis Memorial Veterans

##### Administration Hospital

Daryl Heustis, M.D., Assistant Dean

#### Los Angeles Campus

Leroy A. Reese, M.D., Associate Dean

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Diversity Affairs

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 John McCracken  
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 Frank Howard  
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 Lawrence K. Loo  
 John McCracken  
 Jigar Patel  
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Daila S. Gridley

Walter Johnson

Michael Lilly

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Randell Schell

Robert W. Teel ('02)

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**THE FACULTY INDEX**

In the alphabetical listing that follows, the letters at the right of the name indicate the SM department or division and/or other School in which the faculty member is listed.

**CODES**

- ANAT Human Anatomy
- ANES \*Anesthesiology
- BCHM \*Biochemistry [and Microbiology]
- DERM Dermatology
- EMDN \*Emergency Medicine
- FMDN \*Family Medicine
- GYOB \*Gynecology and Obstetrics
- MEDN \*Medicine
- MICR Microbiology
- NEUR \*Neurology
- NEUS Neurosurgery
- OPHM \*Ophthalmology
- ORTH \*Orthopaedic Surgery
- OTOL Otolaryngology
- PATH \*Pathology [and Human Anatomy]
- PEDS \*Pediatrics
- PHRM Pharmacology
- PMRH \*Physical Medicine and Rehabilitation
- PHSL \*Physiology [and Pharmacology]
- PRVM \*Public Health and Preventive Medicine
- PSYT \*Psychiatry
- RADS \*Radiology
- RDMN \*Radiation Medicine
- SURG \*Surgery
- UROL Urology

- AH School of Allied Health Professions
- FR Faculty of Religion
- GS Graduate School
- PH School of Public Health
- SD School of Dentistry/Dental Hygiene

\*department [full name in brackets]  
#chair or cochair of department identified by code

**EMERITUS FACULTY**

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- Bacchus, Habeeb MEDN
- Baumgartner, Conrad J. SURG
- Branson, Bruce W. SURG
- Brown, Albert F. PATH
- Brownsberger, Sidney B. OPHM
- Bullas, Leonard R. MICR
- Centerwall, Williard R. PEDS
- Cohen, Theodore M. DERM
- Comarr, A. Estin UROL
- Cover, William L. MEDN
- Crane, Milton G. MEDN

- Crawford, Raymond B. MEDN
- Cutler, Ralph E. MEDN
- Dayes, Lloyd A. NEUS
- Dybdahl, Gerhardt L. PATH
- Eckmann, Bertram H. MEDN
- Engen, Paul C. ANAT
- Fields, Irving A. SURG
- Fraser, Ian M. PHRM
- Goldman, Theodore H. PEDS
- Graf, Walter S. MEDN
- Grames, George M. MEDN
- Harris, John J. MEDN
- Hinshaw, David B., Sr. SURG
- Hirst, Albert E., Jr. PATH
- House, Leland R. OTOL
- John, Donald L. MEDN
- Johns, Varner J. MEDN
- Koobs, Dick H. PATH
- Leff, Irving L. MEDN
- Lobo, Denis F. ANES
- Longerbeam, Jerrold K. SURG
- Massey, Ben D. UROL
- McCluskey, Elwood S. PHSL
- Miller, David SURG
- Mitchell, Daniel A., Jr. ANAT, SURG
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- Neilsen, Ivan R. RDMN
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- Perzik, Samuel L. SURG
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- Quilligan, J. Joseph PEDS
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- Roberts, Walter H. B. ANAT
- Rogers, Frank A. SURG

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Ryckman, Raymond E.	MICR	Aloia, Roland C.	ANES, BCHM
		Alvarez, Louis R.	PSYT
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Shure, Norman M.	MEDN	Anderson, David V.	ORTH
Siegel, Lawrence S.	PEDS	Anderson, Dennis K.	SURG
Smith, Louis L.	SURG	Anderson, Donald L.	PSYT
Stevens, H. Glenn	MEDN	Anderson, Donald Lynn	ANES
Stilson, Mildred L.	PATH	Anderson, Nancy J.	DERM, PEDS
Stilson, Walter L.	RADS	Andreason, Troy J.	SURG
Street, Dana M.	ORTH	Andrews, D. Jeanne	PEDS
Strother, Allen	PHRM	Anholm, James D.	MEDN
		Aoyagi, Y. Paul	FMDN
Thompson, Ralph J.	SURG	Applegate, Patricia J.	MEDN
Tilton, Bernard E.	PHRM	Applegate, Richard L. II	ANES
		Arani, Siavash	MEDN
Wagner, Edward D.	MICR	Archambeau, John O.	RDMN, PEDS, ANAT
Walker, Weldon J.	MEDN	Arjomandy, Bijan	RDMN
Wareham, Ellsworth E.	SURG	Armijo, Javier A.	FMDN
Wechter, William J.	MEDN	Armon, Carmel	NEUR
West, Raymond O.	FMDN	Arruda, Johnny	OTOL
Willard, Rodney E.	PATH	Ashwal, Stephen	NEUR, PEDS
		Ask, Mihran H.	MEDN, PRVM
Yamada, Shokei	NEUS	Assaad, Assaad N.	PEDS
		Austin, Bruce T.	RADS
		Avants, Teresa P.	GYOB
		Avila, Karole S.	PSYT
		Avina, Robert L.	FMDN
		Azer, Sherif A.	ANES

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Abas, Nader A.	EMDN	Bae, Moon S.	PMRH
Abbey, David	PRVM	Bae, Won-Chul	RADS
Abboy, Ramadas	MEDN	Baerg, Joanne E.	SURG
Abd-Allah, Shamel A.	PEDS	Bailey, Leonard L.	#SURG, PEDS
Abdollah, Karim	ORTH	Balarezo, Carlos A.	SURG
Abou-Zamzam, Ahmed M.	SURG	Balasubramaniam, Kumaravelu	MEDN
Abraha, Daniel	PEDS	Balgama, Freddie B.	PEDS
Abu-Assal, Maged L.	NEUS	Ballard, Jeffrey L.	SURG
Ackley, Kimberly D.	OPHM	Ballard, Robert H.	ORTH
Adams, Jane E.	PRVM	Banerjee, Monica M.	MEDN
Adey, W. Ross	MEDN, NEUR, PHSL	Bangasser, Ronald P.	FMDN
Afifi, Ghada Y.	SURG	Bansal, Dajeet B.	MEDN
Ahmad, Borhaan S.	PEDS	Bansal, Ramesh C.	MEDN
Ahmad, Imdad	MEDN	Barcega, Besh R.	EMDN, PEDS
Ahn, Changwoo	SURG	Barker, Linbrook	SURG
Aiyan, Shobha S.	MEDN	Barnes, Karl B.	PMRH
Aka, Paul	SURG	Barnes, Donald T.	RADS
Akanli, Leyla	PEDS	Baron, Pedro	SURG
Akin, M. Rose	PATH	Bartos, Rebekah	MEDN
Aldana, Daniel H.	PEDS	Baum, Marti	PEDS
Al-Zaibag, Muyaed	MEDN	Baylink, David J.	BCHM, MEDN, ORTH
Albert, Julie M.	PSYT	Beaghtler, Marc A.	UROL
Alexander, Charles H.	ORTH		
Alexander, Wil	FR, FMDN, SURG		

Beal, William S.	ORTH	Brauer, Stanley D.	ANES
Beckwith, J. Bruce	PATH, PEDS, UROL	Bravo, Norman D.	FMDN
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Bennett, Jack L.	SURG	Brown, William E.	ORTH
Berdega, Jesus G.	MEDN	Brown-Harrell, Vickie D.	MEDN
Bergan, John J.	SURG	Bruckner, Evert A.	MEDN
Berglund, Hazel J.	ORTH	Bruttomesso, Samuel A.	PEDS
Berk, Lee S.	PATH, PRVM	Bryan, Patrick J.	RADS
Berriman, Diane J.	MEDN	Buchholz, John	PHRM
Bhat, Venkatesh G.	PSYT	Bui, Hong	PEDS
Bhatt, Dilip R.	PEDS	Bull, Beryl H.	PMRH
Bianchi, Christian	SURG	Bull, Brian S.	#PATH
Bietz, Duane S.	SURG	Bull, Maureen H.	ANES
Billimoria, Phiroze	RADS	Bullock, Weldon J.	PATH
Bischoff, Frederick M.	PRVM	Bunnell, William P.	ORTH, PEDS
Bischoff, Joann K.	MEDN	Burnham, Gilbert M.	PRVM
Blacharski, Paul A.	OPHM	Bush, David A.	RDMN
Blackman, Donald M.	MEDN	Bush, Sean P.	EMDN
Blackwelder, J. Timothy	RADS	Buss, William C.	RADS
Blaine, Andrew C.	PSYT	Butler, Terrence L.	PRVM
Blaine, Cyril D.	MEDN	Byrne, John M.	MEDN
Blakeley, Eleanor A.	RDMN	Camacho, Elber S.	MEDN
Blakely, Patricia S.	MEDN	Canga-Siao, Cynthia R.	MEDN
Bland, David	MEDN	Can tin, Edouard	MICR
Blanton, Christopher L.	OPHM	Cantos, Kenneth A.	MEDN, PATH
Blaylock, Andre V.	FMDN	Cao, Jeffrey D.	PATH
Block, Barry S.	GYOB	Carnahan, Clarence, Jr.	PSYT
Blomquist, Ingrid K.	MEDN	Carlin, Lorna S.	PSYT
Bocachica, John H.	MEDN	Carriedo, Heather A.	PEDS
Bohr, Thomas W.	NEUR	Carter, Ethelred E.	MEDN
Boling, Eugene P.	MEDN	Carter, P. Richard	SURG
Bonnet, Reiner	MEDN	Casiano, Carlos A.	MEDN, MICR
Bork, Jane	PEDS	Castanotto, Daniela	MICR
Borut, Danielle L.	PEDS	Castro, Daniel	MEDN, FMDN
Bouland, Daniel L.	MEDN	Catalano, Richard D.	SURG, EMDN
Bounds, Jeffrey A.	NEUR	Cemaj, Samuel	SURG
Bowen, William W.	ORTH	Cha, Chul C.	PEDS
Boyne, Philip J.	SURG	Chan, Clement K.	OPHM
Bozzetti, Louis P., Jr.	PSYT	Chan, Francis D. W.	FMDN, PEDS
Braham, Arlene	PRVM	Chan, Philip J.	GYOB, PHSL
Brandstater, Bernard J.	ANES	Chaney, Robert H.	MEDN
Brandstater, Murray E.	#PMRH	Chang, Andrew C. H.	MEDN
Brandt, Allen L.	ANES	Chang, Pairoj S.	RADS
Brandt, Rodney D.	ORTH	Chang, Suzanne E.	MEDN
Brar, Harbinder S.	PEDS	Charles-Marcel, Zeno L.	MEDN
Braslow, Lawrence	SURG	Chase, Donald R.	PATH
Brauer, Floyd S.	ANES		

Chase, Resa L.	PATH	Cottrell, Alfred C.	MEDN
Cheek, Gregory	MEDN	Couperus, James J.	#MEDN
Chen, Chien-Shing	MEDN	Coutrakon, George B.	RDMN
Chen, Shin Tai	BCHM	Craig, Debra D.	MEDN, FMDN
Cheng, Chester	SURG	Craig, Kevan Z.	PMRH
Cheng, Wayne K.	ORTH	Craig, William A.	ORTH
Chhabra, Gurbir	ORTH	Cranston, Richard T.	PSYT
Chi, Esmond	SURG	Cress, C. Raymond	PHRM
Chi-Lum, Bonnie I.	PRVM	Cruz, Ernesto	PEDS
Chick, Wilson K. W.	PATH	Cummings, Christopher D.	RADS
Childers, Ben J.	SURG	Cummings, Michael A.	PSYT
Chin, Terry W.	PEDS	Cunningham, Janet A.	FMDN
Ching, Victor C.	UROL	Curtis, Brian V.	NEUS
Chinnock, Richard E.	PEDS, EMDN	Cutler, Drew	PEDS
Choi, Chul	GYOB	Cutler, Ralph E.	PHRM
Chonkich, George D.	OTOL		
Choo, Evelyn B.	PATH	D'Antonio, Linda	OTOL, SURG
Chow, Lori J.	SURG	Dai, Qiang G.	ORTH
Chow, Tony	EMDN	Dai, Vo Minh	PEDS
Chrisler, John M.	ORTH	Dajnowicz, Anthony	PEDS
Christison, Caron S. I.	PSYT	Dandamudi, Nagamani	MEDN
Christison, George W.	PSYT	Daniel-Underwood, Linda	EMDN
Chu, Victor B.	PEDS	Daniels, Althea P.	PEDS
Chua, Samuel C.	EMDN	Darnell, T. Allan	PRVM
Chung, Deborah M.	ANES	Dasgupta, Chiranjib	BCHM
Chung, Paul Y.	OPHM	Date, Vishvanath V.	MEDN
Chung, Iris J.	FMDN	Davidian, James L.	OPHM
Churg, Warren B.	FMDN	Davidson, Michael J.	PMRH
Cipta, Anne T.	ANES, PMRH	Davis, Rhonda P.	PHRM
Clark, Alexandra M.	PEDS	Dee, David, Jr.	RADS
Clark, Susan J.	PEDS	DeGuzman, Lino J.	MEDN
Clarke, Andrea M.	FMDN	De León, Daisy D.	PHSL
Clarke, Ian C.	ORTH	De León, Marino A.	PHSL
Cleaves, Wallace	PEDS	del Rio, Michael	SURG
Cline, Denis J.	OPHT	Deming, Douglas	PEDS
Clippinger, Karen S.	PMRH	Deng, Zemin	MEDN
Clover, William M.	PEDS	Denler, Loren L.	OPHM
Coen, Michael J.	ORTH	Denmark, Thomas K.	MEDN
Coggin, C. Joan	MEDN	Denmark, T. Kent	EMDN
Cojocar, Traian T.	NEUS	Deppe, Linda	FMDN
Colburn, Keith K.	MEDN	Devlin, Vincent J.	ORTH
Cole, Bradley A.	NEUR	Dew, Ann L.	PRVM
Cole, Daniel J.	ANES	Dexter, James R.	MEDN
Collen, Martin J.	MEDN	Diem, Laurie L.	PEDS
Collins, Norberto E.	SURG	Donaldson, Thomas K.	ORTH
Colohan, Austin R. T.	NEUS	Doran, Kenneth D.	MEDN
Concepcion, Waldo	SURG	Doroshov, George D.	PEDS
Condon, David S.	MEDN	Downey, Ralph III	MEDN
Condon, Stanley C.	MEDN	Doyle, Brian S.	ORTH
Cooper, Holly S.	EMDN	Drinkard, James P.	MEDN
Corbett, Steven W.	EMDN	Du, Dai V.	FMDN
Corselli, Johannah	GYOB, ANAT	Duazo, Neita R.	PATH
Cosgrove, Daniel S.	MEDN	Duckles, Sue P.	PHRM
Cotton, Adrian N.	MEDN	Ducsay, Charles A.	PHSL

Duerksen-Hughes, Penelope J.	BCHM	Fox, David	PEDS
Duffin, Robert M.	OPHM	Fox, George	PEDS
Dunbar, Jennifer A.	OPHM	Fraser, Gary E.	MEDN, PRVM
Dunbar, Richard D.	RADS	Friley, Joy I.	PATH
Duran, Carlos	SURG	Friedman, Gerald S.	MEDN
Dyer, James F., Jr.	PSYT	Friedrichsen, Eric J.	OPHM
Dyjack, David T.	PRVM	Fritz, Helmut F.	MEDN
Dysinger, P. William	PRVM	Fritzsche, Peggy J.	RADS, UROL
		Frivold, Geir P.	MEDN
Eachus, H. Todd	PEDS	Frykman, Gary K.	ORTH
Eaton, Douglas O. W.	MEDN	Fullerton, Monte W.	SURG
Edwards, Lincoln P.	PHRM	Funkhouser, Laura	PEDS
Eichenberg, Brian	SURG	Fymat, Alain L.	RADS, RDMN
Eke, Clifford C.	SURG		
Elias, Grace	SURG	Gabriel, Edward	RADS
Elder, Harvey A.	MEDN	Gallacher, Molly L.	PSYT
Eli, Bradley A.	PMRH	Gandy, Mary L.	PEDS
Elmendorf, Edward	PEDS	Gangolly, Jothi	ANES
Enge, Kari M.	PSYT	Garberoglio, Carlos A.	SURG
Englander, David M.	EMDN	Garberoglio, Maria C.	PEDS
Erickson, David G.	ORTH	Gardiner, Geoffrey A.	RADS
Escher, Alan P.	MICR	Garlitos, Juanito	MEDN
Escobar-Poni, Bertha C.	ANAT	Garrison, Roger C.	MEDN
Escutin, Rodolfo O.	NEUR	Gay, George C.	OTOL
Evans, Dwight C.	MEDN	Geary, Gary G.	PHSL
Evans, J. Robert	MEDN	Geller, Arnold Z.	RADS
		Gemechu, Fekede	SURG
Fanous, Yvonne	PEDS	George, Kelley W.	PEDS
Fargo, Wise M.	PEDS	Ghalambor, Navid	ORTH
Farley, John R.	BCHM, MEDN	Ghazal, Elizabeth	ANES
Farooqi, Mubashir A.	PSYT	Ghazal, Ronny G.	ORTH
Fayard, Carlos R.	PSYT	Giang, Daniel W.	#NEUR
Fayard, Elba E. S.	PEDS	Gibbs, Liliane H.	RADS
Fedak, Marian A.	MEDN	Gibson, Desmond D.	DERM
Felten, David L.	PATH	Gibson, Emily D.	GYOB
Fernando, Miguelito M.	GYOB	Giebel, Arthur W.	OPIH
Fernando, Nancy R.	PEDS	Giem, Marla G.	MEDN
Fernando, Ronald S.	MEDN	Gierz, Monika	PSYT
Ferry, David R.	MEDN	Giese, Herbert A., Jr.	PEDS
Ferry, Linda H.	PRVM, FMDN	Gilbert, Raymond	GYOB, PHSL, ANAT
Finley, J. Michael	MEDN	Gill, Michelle R.	EMDN
Firek, Anthony F.	MEDN	Gilman, Christopher	RDMN
Fisher, Franz P.	MEDN	Gimbel, Howard	OPHM
Flaxel, Christina J.	OPHM	Girgis, Raafat W.	PSYT
Fleming, John	FMDN	Gnanadev, Appannagari	SURG
Fletcher, Hansel M.	MICR	Godfrey, Thomas E.	MEDN
Fletcher, William H.	ANAT, PHSL	Gold, Philip M.	MEDN
Flowers, Mary Alice	MEDN	Gollin, Gerald	SURG
Fodor, Istvan	MICR	Gollin, Yvonne G.	GYOB
Fordham, Stewart	OTOL	Gomer, Perin D.	NEUR
Forland, Steven C.	MEDN	Gonzaga, Alma A.	MEDN
Foster, Glenn L.	MEDN	Gonzaga, Eduardo J.	MEDN
Foster, Ray L.	ORTH	Gonzalez, Jaime	EMDN

Gonzalez, Ramon R., Jr.	PHSL	Harding, George T. IV	PSYT
Gonzalez, Wilbert	GYOB	Hardt, William H.	MEDN
Goodlow, Gerald R.	PMRH	Harms, Lawrence A.	SURG
Gorenberg, Alan	MEDN	Harris, Melvyn L.	EMDN
Gorenberg, Daniel	MEDN	Hart, Kenneth W.	PRVM
Gottlieb, Bernard	DERM, MEDN, PATH	Hart, Richard H.	#PRVM
Grames, Barry S.	ORTH	Hasso, Anton	RADS
Grange, Jeffrey L.	EMDN	Hathout, Eba H.	PEDS
Gray, Timothy P.	ORTH	Hattis, Ronald P.	PRVM
Green, Lora M.	MICR, MEDN	Hau, Benny	FMDN
Green, Steven M.	EMDN	Hauck, Arthur J.	PATH
Gregg, Robert H.	GYOB	Haviland, Mark G.	PSYT
Gregorius, Beverly J.	GYOB	Haywood, L. Julian	MEDN
Gridley, Daila S.	MICR, BCHM, RDMN	Hayden, Jonathan M.	EMDN
Griffin, Margaret A.	MEDN	Heart, Joya	PEDS
Griffin, Ronald	MEDN	Hegewald, Kevin G.	EMDN
Grill, Bruce B.	PEDS	Hegstad, Douglas R.	MEDN
Gropen, Joseph	MEDN	Heidinger, Harvey	PEDS
Gross, Matthew F.	PEDS	Height, Vickie V.	MEDN
Grover, Michael L.	FMDN	Heine, Nancy J.	MEDN
Grube, Gerald	RADS	Heinrich, James A.	OTOL
Guevara-Channell, Patricia	FMDN	Heiskell, Lawrence E.	SURG
Gugan, Agnes S.	PEDS	Henderson, David A.	ANAT
Guldner, Gregory T.	EMDN	Herber, Marilyn	GYOB
Gundry, Steven R.	SURG, PEDS	Herber, Raymond	MEDN
Gunnarsson, Jocelyn	MEDN	Herbes, Greta M.	PSYT
Gupta, Subhas C.	SURG	Herford, Alan S.	SURG
Gustafson, G. Allen	ORTH	Herrman, Jan M.	MEDN
Guth, Kathlene E.	RADS	Herrmann, E. Clifford	BCHM
Guzek, James	OPHM	Herzberger, Kathy A.	MEDN
Guzman, Ernie	PEDS	Hessinger, David A.	PHSL, PHRM, BCHM
Guzon-Castro, Erlinda	ANES	Heustis, Darryl G.	PATH
Gysin, Reinhard	MEDN	Heywood, J. Thomas	MEDN
		Hill, Kevin B.	MEDN
Hackie, E. Mark	RADS	Hillebrand, Donald J.	MEDN
Haddad-Wilson, Mouna E.	MEDN	Hilliard, Dennis A.	MEDN
Hadley, G. Gordon	PATH	Hilliker, Sandra	MICR
Hadley, H. Roger	UROL	Hillock, Ronald H.	PATH
Hage, Jean-Claude	FMDN	Hindman, Bernard W.	RADS
Hahn, Young-il H.	GYOB	Hindman, Joseph K.	PEDS
Hall, Raymond G., Jr.	PHSL	Hinshaw, David B., Jr.	#RADS
Hall, Susan L.	MEDN	Hirokane, Jane M.	DERM
Hallatt, Jack G.	GYOB	Hocko, Janet M.	RDMN
Haller-Wade, Tina	FMDN	Hoffman, Keith D.	PATH, #SURG, SD
Halverson, Janet E.	PEDS	Hoffman, Thomas J.	MEDN
Hamamura, Richard K.	ANES	Holness, Yvette A.	PMRH
Hammond, Paul G. S. J.	MEDN	Holshouser, Barbara	RADS
Hanna, Fikry F.	PATH	Hong, Jeffrey C.	OPHM
Harder, Sheri L.	RADS	Hooker, William M.	ANAT
Hardesty, Jeffrey S.	GYOB	Hopp-Marshak, Helen	FMDN
Hardesty, Robert	SURG	Hopper, Andrew O.	PEDS
Hardin, Steven B.	MEDN	Horstmann, Jonathan	FMDN
Harding, Gary H.	PRVM	Hotchner, Bradley R.	ORTH

Houchin, Kenneth	OPHM	Johnson, Bernarr B.	ORTH
Houwen, Berend	PATH	Johnson, Cameron J.	PSYT
Howard, Frank D. IV	MEDN	Johnson, D. Robert	ORTH
Hoxie, Russell E.	MEDN	Johnson, James P.	PSYT
Hoyle, Jerry D.	PSYT	Johnson, John L.	PEDS
Hsia, Patricia C.	MEDN	Johnson, Mark	MICR
Huang, Galen C. L.	MEDN	Johnson, Robert L.	MEDN
Huang, James J.	MEDN	Johnson, Ronald B.	GYOB
Huang, Virginia S. S.	SURG	Johnson, Walter D.	NEUS
Huang, Wen-Hsiung L.	PEDS	Jones, John S.	EMDN
Hubbard, Joseph G.	UROL	Jones, William G.	RADS
Hubbard, Richard W.	PATH, BCHM	Jorteg, Torbjorn I.	MEDN
Hu, Ke-qin	MEDN	Josselson, Albert J.	MEDN
Huaranga, Arnando J.	MEDN	Jouline, Igor B.	MICR
Huffaker, Gary G.	OPHM	Jung, Timothy	OTOL
Hughes, W. William III	PATH	Junkert, William E., Jr.	FMDN
Hunt, Enacio G.	MEDN	Jutzy, Kenneth R.	MEDN
Hurley, Mary E.	ORTH	Jutzy, Roy V.	MEDN
Hwang, Bessie L.	PRVM		
Hyman, Charles J.	PEDS	Kachenmeister, Robert	SURG
		Kafrouni, George	SURG
Ibrahim, Rauof A.	PEDS	Kalbermatter, Olga	PEDS
Ihde, Janet H.	SURG	Kaleita, Thomas A.	PEDS
Imperio, Joshua A.	MEDN	Kalina, Sharon L.	SURG
Ing, Michael B.	MEDN	Kamdar, Vikram V.	MEDN
Ing, Samuel J.	RADS	Karefa-Johnson, Suzanne	PRVM
Isaacs, George M.	MEDN	Kasper, August	PSYT
Isaacs, Kristen E.	OPHM	Katz, Jeffery M.	MEDN
Isaeff, Dale M.	MEDN	Kay, Brent W.	MEDN
Isinhue, Ming Chang	FMDN	Kean, Charles	PHSL, SURG, SD
		Keany, James E., Jr.	EMDN
Jabola, B. Rodney	RDMN	Kedlaya, Divakara	PMRH
Jackson-Townsend, Denise L.	MEDN	Keeney, Elden D.	GYOB
Jacobs, Durand F.	PSYT	Kennedy, Catherine M.	MEDN
Jacobsen, Wayne K.	#ANES, PEDS	Kettering, James D.	MICR
Jacobson, Alan K.	MEDN	Ketting, Case H.	RDMN
Jacobson, John D.	GYOB	Keushkerian, Simon	SURG
Jahromi, Mehdi S.	MEDN	Khalil, Sherif F.	MEDN
James, Patricia L.	EMDN	Khan, A. Hafeez	MEDN
Jang, Geun C.	MEDN	Khan, Aqueel S.	EMDN
Janner, Donald L.	PEDS	Khan, Faisal A.	SURG
Javor, George T.	BCHM, MICR	Khehra, Balram S.	MEDN
Jay, Shirlene	DERM	Kheradpour, Albert	PEDS
Jeng, Shyun	OPTH	Khoja, Sadruddin G. Hussain	MEDN
Jenkins, Rick L.	PSYT	Khubesrian, Marina	FMDN
Jennings, John C.	MEDN	Kidder, Melissa Y.	GYOB
Jensen, Curtis M.	EMDN	Kido, Daniel K.	#RADS
Jesse, Claran H.	ORTH	Kief-Garcia, Monika L.	RADS
Jimenez, Felipe	MEDN	Killeen, J. David	SURG
Job, Jayakaran S.	PRVM	Kim, Daniel B.	SURG
Job, Leela	PEDS	Kim, Daniel I. S.	MEDN
Jobe, Christopher M.	#ORTH, PATH	Kim, Dennis Y.	MEDN
Johna, Samir D.	SURG	Kim, Mi Ye	MEDN

Kim, Grace J.	EMDN	Lao, Wilson D.	MEDN
Kim, Jien Sup	PMRH	Larsen, James P.	MEDN
Kim, John Y. G.	OTOL	Larsen, Ranae	PEDS
Kim, Michelle	ANES	Larsen, Steven E.	MEDN
Kim, Richard	FMDN	Lau, Alan C. K.	MEDN
Kim, Soo Youn	PEDS	Lau, Benjamin H. S.	MICR
Kim, Y. William	PSYT	Lau, Carol A.	ANES, PEDS
Kimball-Jones, Penny L.	ANES	Lau, Francis Y. K.	MEDN
Kinback, Kevin M.	PSYT	Lau, Kathleen M.	GYOB
King, Alan	#GYOB	Lau, Kin-Hing W.	MEDN, BCHM
Kirby, Michael A.	PEDS, PATH, ANAT	Lau, Susie H.	MEDN
Kirk, Gerald A.	RADS	Lawrence, Larry C.	PSYT
Kirk, Shannon	RADS	Leach, Richard A.	FMDN
Kirkish, Patricia M.	PSYT	Lee, Essie K.	FMDN
Kirsch, Wolff M.	NEUS, BCHM	Lee, Esther C.	PMRH
Kjellin, Ingrid B.	RADS	Lee, Jonathan C.	PMRH
Klanduch, Frank A.	EMDN	Lee, Joseph	MEDN
Klein, Robert A.	NEUR	Lee, Jung-Sup	MEDN
Klooster, Marquelle J.	PEDS	Lee, Kil Un	PATH
Klop, Winiford J.	PSYT	Lee, Scott W.	MEDN
Knierim, David S.	NEUS, PEDS	Lee, Soon-Seng	DERM
Knutsen, Raymond	PRVM	Lee, Sze C.	UROL
Knutsen, Synnove M. F.	PRVM	Lee, Tony B.	FMDN
Koffman, Martin	ORTH	Lehocky, Brett E.	SURG
Koga, Claire H.	FMDN	Leonora, Carmela M.	MEDN
Kootsey, J. Mailen	#PHRM, PHSL	Leonora, John	#PHSL, BCHM, MEDN
Kopec, Kenneth M.	FMDN	Lessard, George M.	BCHM
Kopiloff, George	PSYT	Lester, Margaret H.	FMDN
Korbin, Marvin A.	NEUS	Leung, Duncan	MEDN
Korpman, Ralph A.	PATH	Leung, Megan	EMDN
Koteira, Faher	MEDN	Levine, Edward F.	SURG
Kounang, Robertus H.	PMRH	Levine, Paul A.	MEDN
Kovacik, R. David	EMDN	Levine, Victor D.	EMDN
Kovitz, Benjamin	PSYT	Levy, Jody D.	MEDN
Kozman, Maher S.	PSYT	Levy, Richard P.	RDMN
Krick, Edwin H.	MEDN	Lewis, John E.	MEDN, MICR, PATH
Krishnan, Rajagopal	MEDN	Lewis, Terence D.	MEDN
Ku, James S.	FMDN	Li, Kai Ming	SURG
Kuester, Everett	RADS	Li, Yiming	MICR, SD
Kuhn, Irvin N.	MEDN	Libanati, Cesar	MEDN
Kuhn, Michael	PEDS	Lilly, Michael B.	MICR, MEDN
Kurth, Donald J.	PSYT	Lim, Diane C.	MEDN
Lal, Satish K.	ORTH	Lin, Fang Jen	RDMN
Lam, Mary	PEDS	Lin, Ju-an	MEDN
Lambert, Dorothee	NEUR	Lin, Ray	RDMN
Lamberton, Henry L.	PSYT	Lin, Ren Jang	MICR
Lamin, Victor K.	MEDN	Lindley, Elisa M.	GYOB
Landa, Howard	UROL	Lindsey, Leigh A.	PSYT
Lang, Darrell W.	UROL	Linkhart, Thomas A.	BCHM, PEDS
Langga-Sharifi, Euly M.	MEDN	Linton, Anne E.	PSYT
Langridge, William	BCHM, MICR	Liu, Paul C. W.	ORTH
Lansing, J. Dee	GYOB	Liwnicz, Boleslaw H.	PATH, NEUR
		Liwnicz, Regina G.	PSYT



Llaurado, Joseph G.	RADS	Mason, Jenifer J.	PRVM
Lo, Takkin	MEDN	Mason, Linda J.	ANES, PEDS
Lofthouse, Gerald	FMDN	Mathias, Lisel A.	PEDS
Loh, Edward S.	UROL	Matiko, James D.	ORTH
Loh, Michelle H.	PEDS	Mauer, James S.	PSYT
Loh, Samuel	ANES	Mazlumian, Jorge R.	PEDS
Lois-Wenzel, Maria	PEDS	McAfee, Molly K.	SURG
Longo, Lawrence D.	GYOB, PHSL, PEDS	McClure, Chalmers D. III	PEDS, NEUR
Lonser, Ewald R.	PATH	McCracken, John D.	MEDN
Loo, Lawrence K.	MEDN	McFadden, David D.	MEDN
Loredo, Lilia N.	RDMN	McGann, David G.	OTOL
Lorenz, Elmer W.	OTOL	McGhee, William H.	PSYT
Loubriel, Mitzi	PEDS	McGill, Kenneth J.	GYOB
Loughman, Barbara E.	MEDN	McGrew, David R.	OPHM
Loverso, Felice L.	PMRH, NEUR	McIvor, Deborah	ANES
Ludi, Hector D.	SURG	McLaughlin, Kevin P.	UROL
Luh, George Y.	RADS	McMillan, James I.	MEDN
Lui, Antonio K.	NEUR	McMillan, Paul J.	ANAT
Lui, Paul	UROL	McNaughton, Laurie P.	FMDN
Lum, Sharon S. J.	SURG	McNeill, James I.	OPHM
Luther, R. Daniel	EMDN	McNeill, Jeanine A.	RADS
Lynch, E. Lea	EMDN	Mehta, Chandrakant V.	MEDN
		Mehta, Sukh S. R.	MEDN
Mace, John W.	#PEDS	Mellinger, Ronald L.	PEDS
MacKenzie, D. Allan	ORTH, PEDS	Meltzer, Elliot A.	FMDN
Mackett, M. C. Theodore	SURG	Merideth, Charles	PSYT
Macknet, Jr., Kenneth D.	DERM	Merkel, Clifford D.	ORTH
MacMurray, James P.	PSYT	Meyer, James A.	ANES
Maeda, George	PHSL	Meyer, Robert E., Jr.	PEDS
Mahdi, Tarek Z.	FMDN, MEDN	Mierau, Gary W.	PATH
Maier, Beatrice M.	PHRM	Miles, Duncan A. G.	SURG
Majlessipour, Fataneh F.	PEDS	Milholm, Richard L.	FMDN
Mak, Albert C.	RDMN	Mikhael, Magdi	PSYT
Malik, Imtiaz A.	MEDN	Miller, Daniel W.	RDMN
Malik, Priya	MEDN	Miller, Donald	NEUR, MEDN
Manchanda, Ramesh K.	MEDN	Miller, James S.	PEDS
Mandapati, Ravi	PEDS, MEDN	Miller, Jon M.	RDMN
Mann, Julie P.	PEDS	Miller, Kenneth	PSYT
Manoucheri, Manoucher	FMDN	Milligan, Jamie R.	RDMN
Mantik, David W.	RDMN	Mills, Daniel C.	SURG
Mao, Xiao Wen	RDMN	Mirza, Farrukh	PEDS
Marais, Gary E.	MEDN	Mittal, Renu	FMDN
Marais, H. John	MEDN	Mitts, Thomas F.	SURG
Marilao, Hilario A.	PEDS	Moersch, Richard N.	SURG
Marohn, Robert	NEUS	Mohan, Subburaman	BCHM, MEDN, PHSL
Marsa, Robert J.	MEDN	Mohr, Gina J.	FMDN
Martell, J. Todd	MEDN	Mohr, Lester L.	SURG
Martin, Artemio R.	PMRH	Molinaro, Giuseppe	MICR, PATH, PEDS
Martin, Frederick J.	PEDS	Moloney, Patrick M.	MEDN
Martin, Robert D.	ANES	Montgomery, Susanne B.	PRVM
Masinde, Godfred	MEDN	Monty, Louis H.	PSYT
Maskin, Michael B.	PSYT	Moores, Donald	SURG
Mason, James	PEDS	Moorehead, Morrel T.	PATH

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Moorhead, J. David	UROL, PEDS, SURG	Nelson, Gregory A.	RDMN
Morgan, Walter C.	FMDN	Nelson, Jerald C.	MEDN, PATH
Morris, Joan	PEDS	Nelson, Scott C.	ORTH
Morris, John P.	PEDS	Nesper, Timothy P.	EMDN
Morton, Kelly	FMDN	Nethery, W. James	RMDN
Mosaad, Phebe E.	ANES	Neufeld, Timothy E.	FMDN
Moyers, Michael	RDMN	Neumann, Monica M.	ANES
Mthombeni, Jonathan J.	PEDS	Newball, Axa I.	MEDN
Mudge, Milton K.	ORTH	Newsom, Helen	PEDS
Mukherjee, Ashis	MEDN	Ng, Fergus	MEDN
Mulla, Neda F.	PEDS	Ng, Sherlene	MEDN
Multani, Malwinder K.	MEDN	Ngo, Eric	PRVM
Munson, James L.	PEDS	Ngo, Ernest	RDMN
Munson, Laurel J.	GYOB	Ngo, Madeline N.	PEDS
Murdoch, J. Lamont	MEDN	Nist, Laura H.	NEUR
Murdoch, William G.	PSYT	Nitta, Annette T.	MEDN
Murray, Earl D.	MEDN	Nizar-Oentojo, Lanny	PEDS
Murray, Rick D.	GYOB	Noguchi, Thomas T.	PATH
		Nowrangi, Pushpa	PEDS, MEDN
Naftel, John C.	EMDN	Nutter, David	FMDN
Nakamoto, Masao	GYOB		
Namihas, Ivan	RDMN	O'Callaghan, Thomas E.	SURG
Narloch, Joseph A.	PMRH	Obenaus, Andre	RADS, RDMN
Nash, Walter C.	ORTH	Oberg, Kerby C.	PATH, ANAT, SURG
Nava, Pedro B.	ANAT	Ochoa, Humberto R.	EMDN
Neglio, Michael	RADS	Oh, Young Hyun	OPHM



Ojogho, Okechukwu N.	SURG	Prendergast, Thomas J.	PRVM
Oliverio, Michael R.	FMDN	Preston, William	RDMN
Olson, Inger L.	PEDS	Price, J. Edson	SURG
Olson, Mark W.	FMDN	Prichard, John E.	SURG
Opai-Tetteh, David	DERM	Proctor, George J.	PSYT
Opsahl, Michelle T.	FMDN	Prout, Harry C.	SURG
Orr, Barbara L.	FMDN	Pulec, Jack L.	OTOL
Orr, Robert D.	FMDN	Pulido, Emmeline	PEDS
Osborn, Jamie S.	FMDN	Pullen, Vanessa M.	PEDS
Oshiro, Karen N.	GYOB	Pulverman, R. Steven	FMDN
Oshrin, Harvey W.	PSYT	Pumphrey, Charles D.	PEDS
Otero, Jay M.	PSYT	Punjabi, Anil P.	SURG
Owen, Fay D.	PSYT	Putnok, Gilbert J.	MEDN
Oyemade, Olusola A.	PEDS		
		Qin, Xue Zhong	MEDN
Pai, Ramdas G.	MEDN	Quijada, Earl B.	FMDN
Pai, Shantharam R.	FMDN	Quinton, Bonnie S.	PSYT
Pai, Sudha	MEDN		
Pant, Keshab D.	MEDN	Racine, Harold V.	GYOB
Pappas, James M.	PATH	Radcliffe, Anthony B.	PRVM
Pardave, Raul	FMDN	Rains, Victoria	MEDN
Park, Seekook	MEDN	Raiszadeh, Moussa	RADS
Patchin, Rebecca	ANES	Rajaratnam, Richard C.	OTOL
Patel, Bipin L.	PSYT	Rajpoot, Deepak K.	PEDS
Edwin F. Patton	PEDS	Rambharose, John A.	MEDN
Patton, William C.	GYOB	Ramb, Robert W.	NEUS
Patyal, Baldev R.	RDMN	Randolph, J. Franklin	FMDN
Pauls, Gary L.	MEDN	Rao, Ravindra	PEDS
Pearce, Barry F.	NEUS	Rasi, Alfredo L.	SURG
Pearce, Ronald G.	PEDS	Rausser, Michael E.	OPHM
Pearce, William J.	PHSL, BCHM	Raza, Anwar S. S.	PATH
Pecaut, Michael J.	RDMN	Raza, Syed J.	MEDN
Peckham, Norman H.	PATH	Razzouk, Anees J.	SURG
Pecaut, Michael J.	RDMN	Reese, Leroy A.	GYOB
Peppers, Timothy A.	ORTH	Reeve, Ivan L.	FMDN
Pereyra, Robert	SURG	Reeves, Clifton D.	SURG
Perez, Mia C. N.	PATH	Reeves, Mark E.	SURG
Pesavento, Richard D.	OPHM	Reeves, Michelle E.	FMDN
Peters, Warren R.	PRVM, PH	Reinhold, Eskild A.	ORTH
Petersen, Floyd E.	PRVM, PH	Reiss, Gunter	PRVM, PH
Peterson, Donald I.	MEDN, NEUR, PHRM	Reiswig, Philip H.	ORTH
Peterson, Gordon W.	MEDN, NEUR	Rendell-Baker, Leslie	ANES
Peterson, John E., Jr.	PEDS, SD	Rentschler, Robert E.	MEDN
Petti, George H., Jr.	OTOL	Resch, Charlotte	SURG
Peverini, Ricardo L.	PEDS	Reynolds, Lowell W.	ANES, PMRH
Pham, Lien T.	FMDN	Ribeiro, Paulo A.	MEDN
Philip, Shailendri E.	RADS	Richards, Douglas C.	PRVM
Phillips, Edward	MEDN	Richards, Winston H.	UROL
Piantini, Rebeca E.	PEDS	Richardson, Timothy	MEDN
Platt, Marc L.	MEDN	Richmond, Mark G.	EMDN
Pomeroy, Jonnel W.	PEDS	Ricketts, Herman H.	MEDN
Power, Gordon G.	GYOB, MEDN, PHSL	Riesen, Sharon K.	PEDS
Prakash, Ved	RADS	Riesenfeld, Arthur J.	MEDN

Riesenman, John P.	PSYT	Sanders, Isaac	RADS
Riezman, Alan J.	OPHM	Sandlin, Constance J.	PEDS
Rigsby, Rhodes L.	MEDN	Sando, Marvin M.	GYOB
Rincon, Francisco	PEDS	Santiago Lyric	SURG
Rippon, W. Barton	BCHM	Saphyakhajon, Phisit	PEDS
Ritchie, Lois	FMDN	Sasaki, Gordon H.	SURG
Rivera, Jorge L.	SURG, FMDN	Saukel, George W.	PATH
Rivera, Martha E.	PEDS	Scafidi, David E.	RADS
Rizkalla, Suzanne S.	MEDN	Schaepper, Mary Ann	PSYT
Roberson, B. B.	ANES	Schell, Randall M.	ANES
Roberts, Steven E.	MEDN	Schell, Victor	PMRH
Roberts, Wendy E.	MEDN	Schifrin, Barry S.	GYOB
Robinson, Magda L.	FMDN	Schlunt, Michelle	ANES
Robles, Antonio E.	SURG	Schneider, Kimber L.	OPHM
Roddy, Sarah M.	PEDS, NEUR	Schoene, Herman R.	ORTH
Rogers, Frank R.	SURG	Schulte, Reinhard W.	RDMN
Roghair, Garry D.	RADS	Schultz, David E.	PSYT
Roman, Maher A.	MEDN	Schultz, Gerald	OPHM
Ronan, Ann M.	FMDN	Schultz, Michael D.	PSYT
Roos, Philip J.	MEDN	Schultz, Robert L.	ANAT
Ropacki, Michael T.	NEUR	Schulz, Eloy E.	RADS
Rosenquist, Robert C., Jr.	OPHM	Schwandt, Allen L.	MEDN
Rossi, Carl J.	RDMN	Schwartz, Alan C.	MEDN
Rossi, John J.	BCHM, MICR	Schwartz, Elaine B.	MEDN
Roth, Patricia J. D.	PSYT	Segura, George A.	PEDS
Roth, Kenneth R.	ORTH	Sentenn, Gregg A.	PSYT
Roth, William G.	PSYT	Sehra, Ruchir	PEDS
Rouhe, Stanley A.	NEUS	Serabyn, Cynthia L.	MEDN
Rouse, Glenn A.	RADS	Seraj, Ibrahim M.	GYOB
Row, Linda H.	MEDN	Shah, Manoj C.	PEDS
Rowe, Mark	OTOL	Shah, Praful C.	PEDS
Rowsell, Edward H.	PATH	Shah, Pravin M.	MEDN
Rubenstein, Isreal	PEDS	Shah, Rina N.	MEDN
Ruckle, Herbert C.	UROL	Shankel, Tamara M.	MEDN, PEDS
Rudich, Marc D.	SURG	Sharpe, Lawrence D.	PEDS
Ruiz, Cynthia C.	MEDN	Shareef, Tahseen	MEDN
Rusch, Roy M.	ORTH	Shaw, Kathryn	GYOB
Russell, Findlay E.	NEUS	Sheldon, Richard L.	MEDN
Ryu, Junichi	MICR	Sheridan, Clare M.	PEDS, EMDN
		Sheridan, Frank R.	PATH
Saaty, Hans	RADS	Sherwin, Thomas S.	EMDN, PEDS
Sadjadi, Sevel A.	MEDN	Shin, Anthony S.	PSYT
Sahney, Shobha	PEDS	Shoji, Hiromu	ORTH
Sajid, Melvin L.	PSYT	Shook, James E.	ORTH, PEDS
Sakala, Elmar P.	GYOB	Shu, Stanford K.	PEDS
Saks, Gerald	PEDS	Shum, Terence H. C.	MEDN
Salih, W. Ahmad	EMDN	Shutter, Lori A.	NEUR, ANES
Salo, Jonathan C.	SURG	Siddiqui, Mohammed S.	PEDS
Salvador, Herminia S.	GYOB	Siedenburg, Eric	EMDN
Samady, Abdul R.	ANES	Siegel, Lance M.	OPHTH
Samarza, Alane W.	FMDN	Silva, Vasthi V.	MEDN
Samples, John W.	MEDN	Silvergleid, Arthur J.	PATH
Sandberg, Lawrence B.	MEDN, PATH	Simental, Alfred A.	OTOL
Sanders, Hanna O.	PMRH	Simon, Diana	PSYT

Simon, Lauren M.	FMDN	Swensen, Waylene W.	RDMN
Simpson, James D.	SURG	Swope, David M.	NEUR
Simpson, William R.	PSYT		
Singh, Pramil N.	PRVM	Tabuenca, Arnold D.	SURG
Singhvi, Ajeet R.	MEDN	Takayesu, Sharon	OPHM
Skenderian, Daniel	PSYT	Tan, Catherine A.	PEDS
Skoretz, Lynnetta S.	MEDN	Tan, Linda Giles	MEDN
Slater, James B.	RADS, RDMN	Tan, Matthew S.	SURG
Slater, James M.	#RDMN	Tan, Shirley	ANES
Slater, Jerry D.	RDMN	Tan, Shirley M.	MEDN
Slattery, Charles W.	#BCHM, PEDS	Tan, Stanley A.	MEDN
Slaughter, Angela F.	PEDS	Tarar, Ahmad K.	PSYT
Slayback, John B.	SURG	Taylor, Barry L.	#MICR, BCHM
Sloop, R. Richard	NEUR	Taylor, Frank C.	RADS
Small, Mary L.	GYOB	Teel, Robert W.	PHSL
Smith, Bruce E.	PRVM	Teichman, Siegmund	MEDN
Smith, Chauncey L.	MEDN	Teller, Douglas W.	MEDN
Smith, Douglas C.	RADS	Teruya, Theodore H.	SURG
Smith, Dustin D.	EMDN	Testerman, John K.	#FMDN
Soderblom, Robert E.	MEDN	Testerman, Nancy	FMDN
Soeprono, Fred F.	DERM, PATH	Thiel, John T.	PSYT
Sogioka, Norman Y.	SURG, PEDS	Thomas, Larry L.	PRVM
Soloniuk, Victor J.	ANES	Thomas, Mark E.	EMDN
Soo, Izabella	NEUR	Thomas, Tamara L.	EMDN
Sood, Satish M.	BCHM	Thompson, Gordon W.	MEDN
Sowers, Lawrence C.	#BCHM, MICR, MEDN	Thompson, Joseph R.	RADS
Sparks, Dale B.	MEDN	Thompson, Kevin S.	PATH
Specht, N. Lennard	MEDN	Thompson, Teresa L.	ANES
Spector, Marshall J.	PEDS	Thorington, Glyne U.	PHSL
Spencer-Smith, E. Laurence	GYOB	Thorward, Sul R. O.	PSYT
Srivastava, Apurva	MEDN	Thyagarajan, Srinivasan	PATH
Stanhiser, Ruth	FMDN	Tieche, Jean M.	PHSL
Stanisai, Khushal A.	MEDN	Tiwari, Bhoodev	MEDN
Steele, Robert	EMDN	Tong, Karen A.	RADS
Steinman, John C.	ORTH	Tooma, Ghassan S.	ORTH
Stephenson, Charles M., Sr.	OPHM	Tooma, Tom	OPHM
Stephenson, Christopher	OPHM	Torres, Abel	#DERM
Stepien, Betty	MEDN	Torres, Sidney E.	ANES
Stewart, Charles E. III	OTOL	Torres, Vilma	MEDN
Stewart, Gail	EMDN	Torrey, Robert R., Jr.	UROL
Stewart, Steven C.	UROL	Tourtellotte, Charles R.	MEDN
Stier, Gary R.	ANES	Trenkle, Ingrid E.	DERM, PATH
Stilson, Donald L.	ANES	Trenkle, Steven J.	PATH, PEDS
Stockdale, John C.	PSYT	Trotta, Paul H.	SURG
Stoletniy, Liset Nora	MEDN	Trupp, Diana L.	PEDS
Storkersen, Kris J.	OPHM	Tsai, Christopher	UROL
Stottlemeyer, Debra D.	MEDN	Tud Tud-Hans, Leah H.	MEDN
Strong, Donna D.	MEDN, MICR, BCHM	Tully, Richard J.	RADS
Strong, Richard M.	MEDN	Tulyathan, Pranee	PEDS
Strum, Scott R.	PMRH	Tung, Dora T.	PEDS
Sue, Michael W.	MEDN	Tyler, Richard P.	PEDS
Sun, Chao H.	MEDN		
Swabb, Richard J.	MEDN	Uber-Zak, Lori D.	NEUR
Swensen, Ron	GYOB	Uffindell, Sarah	NEUR

Umgelter, Edward H.	SURG	Wilbur, David W.	MEDN
Unger, Jeffrey R.	FMDN	Wilcox, R. Bruce	BCHM
Unis, Joseph S.	RADS	Wilkins, David L.	OPHM
Uppal, Gurvinder S.	ORTH	Wiley, Thomas E.	RADS
		Williams, Paul	ORTH
Vain, Nestor E.	PEDS	Williams, Traci H.	PEDS
Vannix, David L.	SURG	Wilson, Richard J.	UROL
Vannix, Robert S.	SURG	Wilson, Samuel G.	EMDN
van Stralen, Daved W.	PEDS, EMDN	Winston, Karen A.	PEDS
Varadarajan, Padmini	MEDN	Wittlake, William A.	EMDN
Vatnitsky, Stanislav	RDMN	Wohlmuth, Cinna T.	GYOB
Vaughan, Darrell L.	GYOB	Wolcott, Deane L.	PSYT
Verde, E. Ray	PSYT	Wolfsen, James	RADS
Verska, Joseph J.	SURG	Won, Esther	FMDN
Vincent, Alix	RADS	Wong, Raymond Y.	MEDN
Vipond, Bertrand H.	MEDN	Wong, Sammy S.	MEDN
Vo, Huu Dinh	PEDS	Wongworawat, M. Daniel	ORTH
Voleti, Vasanti	PEDS	Woo, Michael K.	MEDN
Vura-Weis, Dorothy E.	FMDN	Wood, Beverly	RADS
Vyhmeister, Edwin E.	SURG	Wood, David L.	ORTH
Vyhmeister, Nidia R.	PEDS	Wood, Michael	SURG
		Wood, Virchel E.	ORTH
Wagner, Robert J.	GYOB	Wresch, Robert R.	OPHM
Wagner, William	SURG, ANAT	Wright, Edwin T.	DERM, PATH
Wallace, G. Carleton	ORTH	Wright, Kenneth R.	ANAT
Wallar, P. Harold	OPHM, PEDS	Wright, Michael H.	ORTH
Walter, Michael H.	MEDN	Wu, Ronald S.	GYOB
Walters, Clifford A.	GYOB	Wursten, April	PSYT
Wang, Hansen	SURG	Wycliffe, Nathaniel D.	RADS, SURG
Wang, Jun	PATH		
Wang, Nan	SURG	Yamada, Robert K.	FMDN
Ward, Sabrina I. W.	RADS	Yanni, George S.	PEDS
Warnell, Ronald	PSYT	Yap, Wilson J.	MEDN
Warner, Kim	GYOB	Yee, Kim	PEDS
Warren, Janelle M.	FMDN	Yegge, Steven R.	ORTH
Warren, M. Charles	SURG	Yellon, Steven M.	ANAT, PEDS, PHSL
Wat, Bo Ying	PATH	Yhip, Sherrie E.	PEDS
Wat, Linda I.	ANES	Yin, Larry	PEDS
Wat, Pamela J.	PATH	Yonemoto, Leslie T.	RDMN
Watkins, Barry E.	ORTH	Young, Guy	PEDS
Watkins, Gregory	RADS	Young, Lionel W.	RADS, PEDS
Watkins, Hubert C.	DERM	Youssef, Moheb S.	ANES
Watson, James R.	ORTH	Yu, Jack	FMDN
Webster, James L.	SURG	Yu, Leisure	ORTH
Ween, Jon E.	NEUR, PMRH	Yusufaly, Yasmin A.	MEDN
Welley, Thomas E.	RADS		
Welsh, David B.	SURG	Zane, Ernest S.	#OPHM
Wentland, Paul D.	MEDN	Zane, Steven E.	OPHM
Wergedal, Jon E.	MEDN, BCHM	Zaske, Merlin R.	PEDS
Werner, Leonard S.	MEDN, FMDN, PHSL	Zewdie, Telahun	MEDN
Wessels, Izak E.	OPHM	Zhang, Lubo	PHRM
West, Donna M.	DERM	Zhu, Yong Hua	NEUS
West, J. Robert	DERM	Zirkle, Thomas J.	SURG, EMDN
Whitbread, David H.	PSYT	Zuccarelli, Anthony J.	MICR, BCHM
Wisseman, George J.	ORTH	Zuppan, Craig W.	PATH

## SUMMARY OF GRADUATES

Class of 1914	6	Class of 1960	85
Class of 1915	12	Class of 1961	87
Class of 1916	10	Class of 1962	82
Class of 1917	13	Class of 1963	99
Class of 1918	22	Class of 1964	103
Class of 1919	5	Class of 1965	78
Class of 1920	14	Class of 1966	89
Class of 1921	20	Class of 1967	89
Class of 1922	23	Class of 1968	83
Class of 1923	39	Class of 1969	69
Class of 1924	58	Class of 1970	85
Class of 1925	70	Class of 1971	95
Class of 1927	42	Class of 1972	97
Class of 1928	36	Class of 1973 APR	97
Class of 1929	65	Class of 1973 SEP	121
Class of 1930	67	Class of 1974	135
Class of 1931	78	Class of 1975	82
Class of 1932	83	Class of 1976A	81
Class of 1933	69	Class of 1976B	72
Class of 1934	90	Class of 1977A	79
Class of 1935	82	Class of 1977B	80
Class of 1936	95	Class of 1978A	70
Class of 1937	73	Class of 1978B	67
Class of 1938	109	Class of 1979A	64
Class of 1939	109	Class of 1979B	81
Class of 1940	93	Class of 1980A	74
Class of 1941	90	Class of 1980B	66
Class of 1942	77	Class of 1981	100
Class of 1943	82	Class of 1982	143
Class of 1944A	67	Class of 1983	138
Class of 1944B	77	Class of 1984	129
Class of 1945	72	Class of 1985	131
Class of 1946	93	Class of 1986	134
Class of 1947	90	Class of 1987	129
Class of 1948	87	Class of 1988	131
Class of 1949	86	Class of 1989	127
Class of 1950	74	Class of 1990	145
Class of 1951	81	Class of 1991	142
Class of 1952	81	Class of 1992	153
Class of 1953A	100	Class of 1993	129
Class of 1953B	93	Class of 1994	154
Class of 1954	91	Class of 1995	153
Class of 1955	93	Class of 1996	153
Class of 1956	84	Class of 1997	140
Class of 1957	98	Class of 1998	167
Class of 1958	96	Class of 1999	149
Class of 1959	77	Class of 2000	154
		Class of 2001	166
		Class of 2002	<u>151</u>
		TOTAL	8600

## SCHOOL ALUMNI ASSOCIATION

Graduates of the School of Medicine organized their Alumni Association in 1915 when only two classes totaling eighteen members had been graduated, and the organization has functioned continuously since that time. Membership is extended to alumni who have graduated with the Doctor of Medicine degree from this University and to graduates of the American Medical Missionary College, operated by Seventh-day Adventists in Battle Creek, Michigan, from 1895 to 1910. Associate membership is extended to students of the School of Medicine, and affiliate membership is extended to faculty who have earned degrees from other institutions. During the 1986-87 school year, membership was extended to the basic science faculty.

### Statement of mission and purpose

The Alumni Association of the School of Medicine of Loma Linda University is a nonprofit organization composed both of alumni and affiliate members. The association is organized to support the School, to promote excellence in worldwide health care, and to serve its members in the following ways:

1. EDUCATION—To encourage continuing education among its members by organizing and offering graduate education and related programs at the Annual Postgraduate Convention and at other health care seminars.
2. COMMUNICATION—To publish newsworthy, factual information about alumni and developments at the School of Medicine in the alumni journal, in the annual directory, and in journals of organizations under the umbrella of the association.
3. HEALTH CARE—To foster improved health care and preventive medicine throughout the world by conducting postgraduate seminars; demonstrations; and people-to-people, health care interactions with Christian concern and compassion.
4. PHILANTHROPY—To encourage the contribution of funds for the support of undergraduate and graduate education at the School, including funds for student loans, research, and professorial chair endowments; and funds to provide for improvement in the School's physical plant. To encourage donations of money, equipment, and supplies for educational centers and health care facilities in areas of need worldwide.
5. MEDICAL RESEARCH—To support medical research among the faculty and students of the School, thereby enhancing the association's ability to respond to the needs of its alumni and to advance medical knowledge.
6. FRATERNITY—To promote and provide gatherings, in an atmosphere of Christian and professional friendship, which foster unity and advance the foregoing objectives.

## ACCREDITATION STATUS

### THE UNIVERSITY

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.

**THE GRADUATE SCHOOL:** Started in 1954. Accredited through University accreditation.

### THE PROFESSIONS

**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.

**CYTOTECHNOLOGY:** 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.

**DENTAL HYGIENE:** Started in 1959. Approved by the Commission on Dental Accreditation of the American Dental Association since September 7, 1961.

**DENTISTRY:** Started in 1953. Approved by the Commission on Dental Accreditation of the American Dental Association since May 23, 1957.

**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 Dietetics Technology Program is currently granted continuing accreditation by the Commission on Accreditation for Dietetics Education of the American Dietetics 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.

**ENDODONTICS:** Started in 1967. Approved by the Commission on Dental Accreditation of the American Dental Association since December 1969.

**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 RADIOGRAPHY:** 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.

**MEDICINE:** 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..

**NUCLEAR MEDICINE:** 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.

**NURSING:** 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.

**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 Dietetics 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.

**ORAL AND MAXILLOFACIAL SURGERY:** Started in 1978. Approved by the Commission on Dental Accreditation of the American Dental Association since 1981.

**ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS:** Started in 1960. Approved by the Commission on Dental Accreditation of the American Dental Association since May 1965.

**PEDIATRIC DENTISTRY:** Started in 1993. Approved by the Commission on Dental Accreditation of the American Dental Association since December 1972.

**PERIODONTICS:** Started in 1979. Approved by the Commission on Dental Accreditation of the American Dental Association since December 1972.

**PHLEBOTOMY:** 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 THERAPIST 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). Accredited March 2002 by the Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC-PA). (Effective January 1, 2001, CAAHEP was succeeded by ARC-PA).

**PROSTHODONTICS:** Started in 1993. Approved by the Commission on Dental Accreditation of the American Dental Association since February 1995.

**PUBLIC HEALTH:** 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.

**RADIATION THERAPY:** 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.

**RESPIRATORY CARE:** 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.

**SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY:** Approved by the American Speech-Language-Hearing Association June 1, 1991.

## ACCREDITING AGENCIES

### THE UNIVERSITY

**L**oma Linda University is accredited by WASC.

Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges

985 Atlantic Avenue, Suite 100

Alameda, CA 94501

Phone: 510 / 748-9001

FAX: 510 / 748-9797

Web site: [www.wascweb.org](http://www.wascweb.org)

Email: [wascsr@wascsenior.org](mailto: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\*:

### GRADUATE SCHOOL

#### Drug 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](http://www.caadac.org)

Email: [caadac@jps.net](mailto: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](http://www.aamft.org)

Email: [coamfte@aamft.org](mailto:coamfte@aamft.org)

#### Psychology

American Psychological Association

750 First Street N. E.

Washington, DC 20002-4242

Phone: 202 / 336-5500

FAX: 202 / 336-5978

Web site: [www.apa.org](http://www.apa.org)

Email: [education@apa.org](mailto: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](http://www.cswe.org)

Email: [info@cswe.org](mailto: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](http://www.asha.org)

Email: [accreditation@asha.org](mailto:accreditation@asha.org)

## SCHOOL OF ALLIED HEALTH PROFESSIONS

### 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](http://www.coarc.com)

Email: [richwalker@coarc.com](mailto: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](http://www.arc-pa.org)

Email: [mccartyj@mfldclin.edu](mailto: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](http://www.naacls.org)

Email: [naaclsinfo@naacls.org](mailto:naaclsinfo@naacls.org)

#### Clinical Laboratory Science

#### (formerly Medical Technology)

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](http://www.naacls.org)

Email: [naaclsinfo@naacls.org](mailto:naaclsinfo@naacls.org)

#### Cytotechnology

Commission on Accreditation of Allied Health

Education Programs (CAAHEP)

35 East Wacker Drive, Suite 1970

Chicago, IL 60601-2208

Phone: 312 / 553-9355

FAX: 312 / 553-9616

Web site: [www.caahep.org](http://www.caahep.org)

Email: [caahep@caahep.org](mailto:caahep@caahep.org)

**Health Information Management****Health Information Administration**

Commission on Accreditation of Allied Health  
Education Programs (CAAHEP)  
35 East Wacker Drive, Suite 1970  
Chicago, IL 60601-2208  
Phone: 312 / 553-9355  
FAX: 312 / 553-9616  
Web site: [www.caahep.org](http://www.caahep.org)  
Email: [caahep@caahep.org](mailto:caahep@caahep.org)

**Nutrition and Dietetics****Dietetic Technician Program—A.S.****Nutrition and Dietetics Program—B.S.**

Commission on Accreditation for  
Dietetics Education (CADE)  
The American Dietetic Association  
216 West Jackson Boulevard, 7th floor  
Chicago, IL 60606-6995  
Phone: 800 / 877-1600  
FAX: 312 / 899-4899 or 899-4817  
Web site: [www.eatright.org/cade](http://www.eatright.org/cade)  
Email: [education@eatright.org](mailto:education@eatright.org)

**Occupational Therapy**

The Accreditation Council for Occupational  
Therapy Education (ACOTE)  
American Occupational Therapy Association, Inc.  
(AOTA)  
P.O. Box 31220  
Bethesda, MD 20824-1220  
Phone: 301 / 652-2682  
or toll free 800 / 377-8555  
FAX: 301 / 652-7711  
Web site: [www.aota.org](http://www.aota.org)  
Email: [accred@aota.org](mailto:accred@aota.org)

**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](http://www.apta.org)  
Email: see Web site

**Radiation Technology****Medical Radiography—A.S.****Radiation Therapy Technology—certificate**

Joint Review Committee on Education in  
Radiologic Technology  
20 North Wacker Drive, Suite 900  
Chicago, IL 60606-2901  
Phone: 312 / 704-5300  
FAX: 312 / 704-5304  
Web site: [www.jrcert.org](http://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](http://www.caahep.org)  
Email: [sharonworthing@coarc.com](mailto: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](http://www.jrcdms.org)  
Email: [sharonworthing@coarc.com](mailto: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](http://www.csrt.org)  
Email: [RKubiak@dhs.ca.gov](mailto: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](http://www.asha.org)  
Email: [accreditation@asha.org](mailto:accreditation@asha.org)

**SCHOOL OF DENTISTRY**

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](http://www.ada.org)  
Email: [licarif@ada.org](mailto:licarif@ada.org)

**SCHOOL OF MEDICINE**

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](http://www.lcme.org); [www.aamc.org](http://www.aamc.org)  
Email: [lcme@aamc.org](mailto:lcme@aamc.org)

**SCHOOL OF NURSING**

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](http://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](http://www.aacn.nche.edu/accreditation)

**SCHOOL OF PUBLIC HEALTH**

Council on Education for Public Health  
 800 Eye St. 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 / 813-0727  
 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

**Nutrition**

Commission on Accreditation for  
 Dietetics Education (CADE)  
 The American Dietetic Association  
 216 West Jackson Boulevard, 7th floor  
 Chicago, IL 60606-6995  
 Phone: 800 / 877-1600  
 FAX: 312 / 899-4899  
 Web site: www.eatright.org/cade  
 Email: education@eatright.org

\*All entry-level degrees are accredited by their respective professional accrediting associations.

**THE UNIVERSITY LIBRARIES**

**Major library resources**

Four major library resources on campus support the University's academic programs. These are:

- the Del E. Webb Memorial Library,
- the Jorgensen Learning Resources Center,
- the Jesse Medical Library and Information Center, and
- the Veterans Administration Library Services.

In addition to these facilities, specialized libraries are located in various medical and school departments on campus.

**Central library**

The Del E. Webb Memorial Library is the central library of Loma Linda University. Its historical roots go back to 1907, when a small library collec-

tion was started in a room of the old Loma Linda Sanitarium. In 1953 the growing collection was moved to its own building on the Loma Linda campus. Then in 1981, a new library building was built from a grant by the Del E. Webb Foundation, giving the library a total floor space of 87,670 square feet. This structure now houses the main library, while the old structure is now shared between the Department of Archives and Special Collections and the bound retrospective journals. As of June 2001, the library has a total collection of 410,807 books, bound and current journals/periodicals, and media items (197,303 books; 125,577 bound journals, 1,420 current periodical subscriptions, 349 nonsubscription periodicals; and 84,158 media items).

**Library mission**

The mission of the Library is to stimulate and support the information needs of the University's instructional, research, and service programs. To this end the Library provides a full range of information support services, including, but not limited to, reference, circulation, reserve, access to the internet, and hundreds of online databases, e.g., full-text, automatic, selective dissemination of information (SDI) services; database end-user training programs; library orientations; interlibrary loans; photocopy and pull services; a microcomputer laboratory; a learning service resource center; class-integrated library instruction programs; and services that support distance education and University outreach programs.

**Worldwide access**

The Library provides access to other collections worldwide using internet technologies. It also participates in a number of national and regional networks. One of these is the National Network of the Libraries of Medicine, founded by the National Library of Medicine. This structure is divided into eight regional sections, one of which is the Pacific Southwest Region. The Del E. Webb Memorial Library belongs to this region and is the designated medical resource library for San Bernardino and Riverside counties. Local library cooperatives include the IEALC (Inland Empire Academic Library Cooperative) and SIR-CULS (San Bernardino, Inyo, Riverside Counties United Library Services). Membership in these cooperatives gives our students, faculty, and staff access to the collections of these libraries. Archives and special collections

**Archives and special collections**

The Department of Archives and Special Collections is the central repository of information on the history of Loma Linda University, the health sciences, and major collections on Adventism. In addition to print materials which include rare books, theses, and dissertations, there are microforms, sound recordings, and several thousand photographs. Searchable digitized indexes for various document files are also available via the Library's web site. The collection also includes 14,000 linear feet of archival materials, which include papers of various denominational and University officials, as well as the congressional papers of the Honorable Jerry and Shirley Pettis.

**ELLEN G. WHITE ESTATE  
LOMA LINDA BRANCH OFFICE**

Also located in the Library is a branch office of the Ellen G. White Estate. It contains 60,000 typewritten pages of Ellen G. White's letters and manuscripts; 4,600 of her published articles; and several different files of materials pertaining to various aspects of her life and ministry. A computerized concordance to her published writings is available to researchers. A link to a bibliography of the different variant editions of her works is available on the Library's home page.





**Key to abbreviations and symbols**  
(See also key to Schools on Campus Map)

- X = Nearest cross street  
> = See Area Map  
LLUAHSC = Loma Linda University  
Adventist Health Sciences Center  
LLU = Loma Linda University  
LLUBMC = Behavioral Medicine Center  
LLUCH = Children's Hospital  
LLUCMC = Community Medical Center  
LLUMC = Medical Center

**Campus Map (numerical)**

- Gentry Gymnasium
- Media Services (University, MC)
- Housekeeping (University); Radiation / Hazardous Materials Safety
- Campus Engineering (maintenance shops); Lock and Key; Campus Receiving (University); 4G=Garage buildings
- Purchasing (University); Campus Engineering (machine shop)
- University Printing Services and Design Department; Construction; Architectural Services; Warehouse
- Drayson Center: volleyball/basketball gym, intramurals, tennis, badminton, racketball, cardio and weight rooms, aerobics studios, tracks, pools, arts and crafts; chaplain's office; Superfield; Student Union; Student Association
- Speech and Hearing Clinic (AH)
- Nichol Hall: School of Public Health, Centers for Health Research and for Health and Development; School of Allied Health Professions; 9C = Cottages; #60 ("Blue")—Marketing and Retention (AH); #70 ("Brown")—OT Field Work Office (AH); #80 ("Green")—SMS, Center for Health and Development (women)
- Daniels Residence Complex (men; graduate women)
- Lindsay Hall (women's residence)
- Campus Hill SDA Church
- Landa Hall (Campus Hill SDA Church)
- Evans Hall: Center for Health Promotion; Cutler Amphitheater; Student Health Service
- Shryock Hall: Anatomy; Embryology Museum
- Alumni Hall for Basic Sciences; Microbiology; Pathology; Courville Museum (pathology)
- Risley Hall: Physiology; Pharmacology;
- Kellogg Amphitheater
- Burden Hall: Academic Publications, room B14; University Relations; Physical therapy lab (AH)
- Orthopaedic and bioengineering research labs; Department of Natural Sciences—Ecological Physiology/Marine Biology research labs

- Randall Visitors Center: Amphitheater; Jorgensen Learning Center
- University Library, Del E. Webb Memorial: Main library; Ellen G. White Estate Loma Linda Branch Office; Heritage Room; Micro-Systems Support
- Magan Hall: Administration, LOMA LINDA UNIVERSITY; Faculty Records; Gift Records; Vice chancellors for academic affairs, advancement, public affairs; Special assistants to the chancellor—diversity, global outreach
- Griggs Hall: Faculty of Religion; Graduate School Departments of Biology, Geology, Marital and Family Therapy, and Social Work
- Mortensen Hall: Biochemistry; Center for Molecular Biology and Gene Therapy
- Campus Security; Rideshare
- University Church; Fellowship Hall; Campus Chapel
- Good Samaritan sculpture
- Prince Hall: School of Dentistry
- Cogeneration Plant (power plant)
- Advanced Periodontics Education; Dentistry faculty endodontics\*
- Educational Support Services (SD)
- Central Building; Psychology (GS)
- Center for Dental Research; Administrative Information Systems (University), room 208
- Carlson Wagonlit Travel—University Travel
- University Arts: Human Resource Management (personnel, payroll, benefits, employee training and orientation); Purchasing (MC); Advanced Life Support Education; Dentistry\*
- Faculty Dental Offices\*
- Occupational therapy lab (AH)
- Grants Management (postaward, University); LLU Foundation Rental Office
- Research affairs, vice chancellor for
- Office of Sponsored Research (preaward)
- Bank of America
- U. S. Post Office
- Upper level: Business Center; Accounting; Foundation; Lower level: Student Services Center—Student Affairs (student life, international student services, off-campus housing, dean of students); Financial Aid; Student Finance/Accounting; Loan Collections; University Records; Administrative Information Systems (University) (room 115)
- La Loma Credit Union
- Campus Cafeteria
- Risk Management
- Safety Education Center
- Campus Store (bookstore, camera shop, Apple computer sales and service); Loma Linda Market (Campus Pharmacy, bakery, natural foods); Pato Pantry
- Alumni Center: Alumni offices; Staff Development; Planned Giving; General Conference liaison
- A.C.T.S. (emergency relief)
- LLU COMMUNITY MEDICAL CENTER; Urgent Care
- Ronald McDonald House

- University Kidney Center (dialysis)
- Faculty Medical Offices (FMO\* and SM)
- LLU CHILDREN'S HOSPITAL; Heliport, H South; Cafeteria; Central Computing (MC)—room B737, room B724 Proton Treatment Center
- LLU MEDICAL CENTER: School of Medicine; Heliport, H North; Lost and Found, B404; Cafeteria; Amphitheaters: Lobby-1506, A512; Transplantation Institute
- Schuman Pavilion: International Heart Institute
- Chan Shun Pavilion: Cancer Research Institute
- Coleman Pavilion: School of Medicine; Medical Affairs (LLUAHSC); Center for Christian Bioethics; Center for Spiritual Life and Wholeness, special assistant to the chancellor—spiritual life and wholeness; Employee health and immunizations, 2nd floor (room 21019)
- Wong Kerlee International Conference Center
- Emergency Department, LLUMC
- Mail Service (University, MC)
- Nelson House: Decision Support Services (MC)
- West Hall: Schools of Nursing and Pharmacy; Graduate School administration; Teaching Learning Center

**Area Map (numerical)**

- Material Supply and Distribution Support Services Center (Receiving, Mercantile, etc.) (MC), 1269 E. San Bernardino Ave., SB (X Tippecanoe)
- Loma Linda Children's Center, 25228 Shepardson Dr. Hospital, 11201 Benton St. (X Barron Rd.)
- Veterans Medical Center, Jerry L. Pettis Memorial (VA Mountain View Plaza (X Barron Rd.); Diabetes Treatment Center (MC); Osteoporosis Research Center, LLU administrative office; Radiology Medical Group, administrative office; Hospice (MC); LL Medical Supply (MC); Home Care Services (respiratory, family) (MC); Judkins Library (MC); LLUMC Managed Care Finance; Health Care Patient Business Office (FMO billing); Adventist Health Managed Care
- Loma Linda Health Center ("Cape Cod" buildings), Mountain View Ave. (X Barron Rd.)
- Providence: LL Community Medical Group\* Cambridge: LLU medical staff administration (BMC, GH, CMC, MC); Compliance Department
- Worcester: Women's Exercise Fitness Center
- Special Projects (MC); Physician Referral and Circle of Care
- Westerly: Medical\*
- Walden: Medical\*
- Harford: LLU Cancer Institute: Cancer Data Center; Administration; Clinical oncology research
- Springfield: LLU Cancer Institute: Region 5 Cancer Surveillance Program; Pharmaceutical research
- Dover: Psychiatry and Behavioral Medicine (SM)

- 11382 Danbury: Loma Linda Health Pharmacy; Dental
  - 11340 Bridgeport: LLU Cancer Institute; Cancer Information
- 69-72: Counseling and chemical dependency treatment centers (students, employees):**
- G-11360 Harford, Suite A: Employee Assistance Program J-11374 Dover: Student psychological counseling services (MC); Medical faculty\*
  - LLU BEHAVIORAL MEDICINE CENTER, 1710 Barron Road (X Terracina Blvd.); Crisis hotline; Partial hospitalization (days only); Inpatient Marriage and Family Therapy Clinic, 164 W. Hospitality Lane, Suite 15, (X Hunt's Lane in SB)
  - Professional Plaza, 25455 Barron F ontage Rd. (X Loma Linda Drive; X Benton St.); Neurosurgery Clinic (MC), Suite 108A; Loma Linda Pharmacy; MC / SM teaching administrative; LLU/LLUMC Occupational Health (work-related health/injury) Suite 106A; dental\*/medical\* SAGHS Norton clinic (E. 3rd Street off Tippecanoe)
  - Geoscience Research Institute [of the General Conference of Seventh-day Adventists] (Ormer Building)
  - (East Campus) LLUMC Rehabilitation Institute; Out-patient physical therapy; Orthopaedic research, Tribology laboratory

**Campus and area maps (alphabetical)** with map numbers

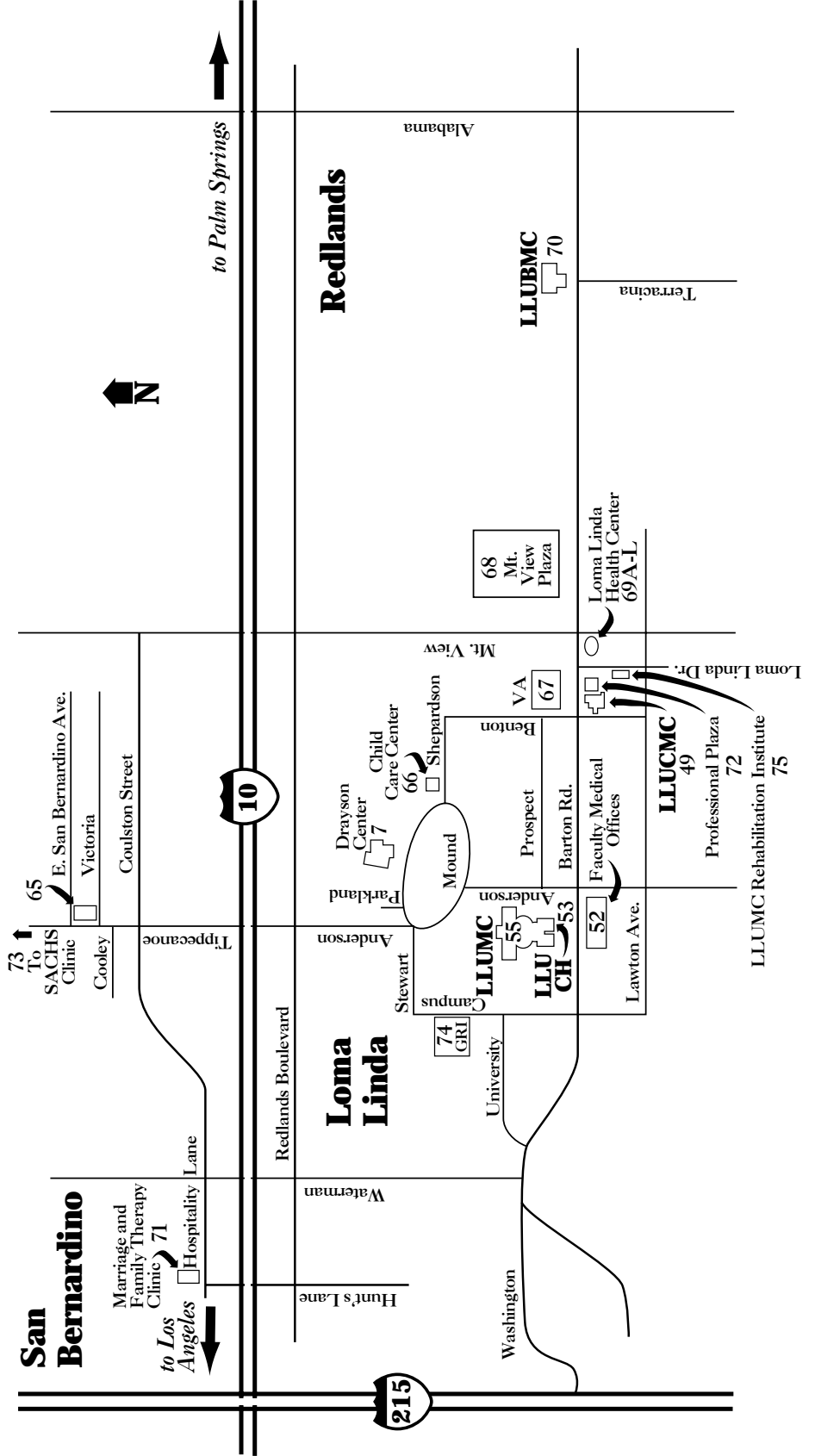
- Academic Publications, 18 (room B14)  
Accounting (University) 41; Student finance, 41  
A.C.T.S. (emergency relief), 48  
Administration, campus business, 41  
Admissions, see Schools; 9, 23, 28, 58, 64  
Advancement, Office of, 22  
Ad, student, 41  
Allied Health Professions, School of, 9  
Alumni Associations: Allied Health Professions, 9; Dentistry, 47; Medicine, 47; Nursing, 64; Public Health, 9  
Alumni Center, 47  
Alumni Hall for Basic Sciences, 16  
Amphitheaters: Barnes, 55; A512; Cutler, 14; Macpherson, 55 (lobby-1506); Kellogg, 17; Randall Visitors Center, 20  
Anatomy, 15  
Architectural Services, 6  
Bakery, 46  
Bank of America, 39  
Basic Sciences, Alumni Hall of (microbiology, pathology), 16  
Behavioral Medicine Center, LLU, 70\*  
**\*private practice office(s)**  
Biochemistry, 24  
Bioethics, Center for Christian, 58  
Biology, 23  
Block building, 19

Bookstore, 46  
 Burden Hall, 18  
 Business administration, campus, 41  
 Cafeterias: Campus, 43; Patio Pantry, 46; CH, 53; MC, 55  
 Camera shop, 46  
 Campus Chapel (University Church), 26  
 Campus Engineering (maintenance), 4; Machine Shop, 5  
 Campus Hill Church, 12  
 Campus Pharmacy, 46  
 Campus Receiving (University), 4  
 Campus Store, 46  
 Cancer Research Institute, 57; 69 G / I / L >  
 Carlson Wagonlit Travel—University Travel, 34  
 Center for Health Promotion, 14  
 Centers for Health Research, Health and Development, 9  
 Centers for: Molecular Biology and Gene Therapy, 22 (room 142);  
 Musculo-skeletal Disease, 67; Neurosurgery Research/Train-  
 ing/Education, 58 (Suite 11113); Perinatal Biology, 55 (A572)  
 Central Building, 32  
 Chan Shun Pavilion, 57  
 Chancellor, LLU, 22  
 Child care center, Loma Linda, 66>  
 Children's Hospital, LLU, 53  
 Cogeneration Plant, 29  
 Coleman Pavilion, 58  
 Computer sales, 46  
 Computing, University: Micro-Systems Support, 21 (room 107)  
 Computing, MC: Information Systems, 55 (rooms B724, B737)  
 Construction, 6  
 Controller, campus, 41  
 Cottages, PH/AH, 9C  
 Credit Union, La Loma, 42  
 Daniels Residence Complex, 10  
 Decision Support Services (MC), 63  
 Dean of students, 41  
 Dental and orthodontics private practice offices,  
 28, 30, 35, 36, 69K>, 72>  
 Dental Research, Center for, 33  
 Dentistry, School of, 28  
 Design Department (University Printing), 6  
 Dialysis center, outpatient, 51  
 Diversity, Office of, 22  
 Drayson Center, 7  
 Educational Support Services (SD), 31  
 Ellen G. White Estate Loma Linda Branch Office, 21  
 Emergency Department, LLUMC, 60-61  
 Emergency relief, A.C.T.S., 48  
 Employee Assistance Program, 69 G>  
 Employee counseling center, 69 G>  
 Employee immunizations, 58 (room 21019); employee health  
 (workers' compensation), 72 (Suite 106A, Professional Plaza)  
 Endodontics, dentistry faculty,\* 30  
 Evans Hall, 14  
 Faculty Dental Offices,\* 36  
 Faculty Medical Offices (FMO\* and SM), 52  
 Faculty of Religion, 23  
 Faculty Records, 22  
 Family and child therapy/counseling, 69 C>, 69J>, 70>, 71>, 72>  
 Fellowship Hall (University Church), 26  
 Finance, Student, 41  
 Finance and Administration, upper 41 (room 1151)  
 Financial Affairs and Compliance, Office of, 41 (room 205)  
 Financial aid, student, 41  
 Fitness/sports/recreation/health center and gym, 7  
 Foundation offices, LLU, 41  
 Garage (vehicle maintenance), 4G  
 Gene Therapy, LLU Center for Molecular Biology and, 24  
 General Conference representative, 47  
 Gentry Gymnasium, 1  
 Geology (GS), 23  
 Geoscience Research Institute, 74  
 Gift Records, 22  
 (Global outreach), Office of International Affairs, 22  
 Good Samaritan sculpture, 27  
 Graduate School, 23, 32, 64  
 Grants: Research Affairs, 38B; Office of Sponsored Research  
 (preaward), 38C; Grants Management (postaward), 38A  
 Griggs Hall, 23  
 HazMat safety, 3  
 Health Promotion, Center for, 14  
 Health, School of Public, 9  
 Health Service, Student, 14; Employee, 58 (room 21019), 69G  
 Heart Institute, International, 56  
 Heliports, 55 H South—LLUH; 55 H North—LLUMC  
 Heritage Room (University Library), 21  
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## PICTURE CAPTIONS

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- 23—The early days, when Loma Linda University was the “sanitarium on the hill” (1905).
- 28—Medical students on the steps of the School of Medicine’s Coleman Pavilion studying for basic science comprehensives.
- 31—Carlos Casiano, M.D. (standing, right), discusses a sample of cells with Ph.D. student Xiwei We (seated), who is assisting Dr. Casiano in his NIH-funded research. Looking on is Zhou Chen, a rotation graduate student.
- 36—Former School of Medicine students who went on mission electives.
- 42—Junior and senior students elected to the national honor medical society, Alpha Omega Alpha, based on scholastic, professional, and personal performance.
- 57—Steven Green, M.D., professor of emergency medicine, with Korbin Haycock, former recipient of the Department of Emergency Medicine Student Award.
- 61—Kenneth Hart, M.D., assistant professor of International Health (SPH), goes over a patient’s chart with Diane Connelly, M.D., gynecology and obstetrics resident, at a SAC Health System clinic.
- 67—Daniel W. Giang, M.D., chair of the Department of Neurology, advising a patient.
- 70—A curriculum of service: medical students spend elective time at mission posts.  
D. Robert Johnson, M.D., (worldwide mission) Physician Recruitment, General Conference Representative Office, an orthopaedist (LLU SM), has played a major role in resurrecting the SM mission elective program. Here he reads an x-ray and explains his findings to medical students on a trip to Nepal.
- 76—School of Medicine students on a pediatrics rotation.
- 80—Ian M. Fraser, M.D.—Distinguished Emeritus Professor, retired vice president for academic and research affairs, and 1967-98 chair of the Department of Physiology and Pharmacology—with his wife, receives a bronze replica of the Good Samaritan sculpture, the University’s highest award to an individual.
- 82—Loma Linda University Behavioral Medicine Center, a center for healing the mind and psyche.
- 85—James M. Slater, M.D., professor and former chair of the Department of Radiation Medicine, explains to California secretary of state Bill Jones and LLUMC administrative officer Terry Hansen the procedure a patient is about to undergo in the Proton Treatment Center. They are in a room where the gantry rotates, delivering a precisely controlled beam of radiation from the proton accelerator to treat diseases such as cancer.
- 89—Adelaido Sosa (right), the 100th liver transplant patient, receives a plaque from Waldo Concepcion, M.D., director of the [liver, pancreas, and kidney] Transplantation Institute at Loma Linda University Medical Center.
- 92—H. Roger Hadley, M.D., head of the Division of Urology, with Juliana King, former recipient of the Roger W. Barnes Award.
- 93—Commencement—a new beginning.
- 95—School of Medicine students (left) learn whole-patient care with a multidisciplinary team.
- 114—Macpherson Society president Kenneth Jutzy, M.D., and School of Medicine dean Brian Bull, M.D., present Teacher of the Year Award—a reserved parking place—to George M. Isaacs, M.D.
- 125—Ellen G. White, a Seventh-day Adventist pioneer, urged the church to establish health centers worldwide, and in Loma Linda the College of Medical Evangelists (now Loma Linda University and its various medical centers).
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**TO COMMUNICATE WITH LLU . . .**

**MAIL:**  
**Loma Linda University**  
**11060 Anderson Street**  
**Loma Linda, CA 92350**

**WORLDWIDE WEB:**  
<http://www.llu.edu>

**PHONE:**  
**For information about LLU 1/800-422-4LLU**  
**dialing from Canada 1/800-548-7114**

**Area Code: 909/**  
**Switchboard: 558-1000, 558-4300**

<b>Off-campus PHONE:</b>	<b>On-campus PHONE:</b>		<b>Off-campus FAX:</b>	<b>On-campus FAX:</b>
558-4540	44540	<b>Chancellor</b>	558-0242	80242
558-4787	44787	<b>Diversity</b>	558-0140	80140
558-4510	44510	<b>Student Affairs</b>	558-4879	44879
		Student welfare, housing, visas...		
558-4955	44955	<b>International Student Services</b>	558-4879	44879
558-4520	44520	<b>Student Finance</b>	558-4879	44879
558-4509	44509	<b>Student Financial Aid</b>	558-4879	44879
558-4508	44508	<b>University Records</b>	558-4879	44879
558-8770	88770	<b>Student Health Service</b>	558-0433	80433
558-6028	66028	<b>Student Counseling</b>	558-6090	66090
558-8625	88625	<b>Teaching Learning Center</b>	558-0179	80179
558-6050	66050	<b>Student Assistance Program</b>	558-6051	66051
		<b>Spiritual Counseling</b>		
558-8348	88348	Campus Chaplain/Campus Ministries . . . . .		. . . . .
558-4570	44570	University Church	558-4186	44186
809-1049	44270	Campus Hill Church	796-1992	. . . . .
335-4275	34275	<b>Crisis Hotline</b>	1-800-752-5999	
793-9333	34008	Behavioral Medicine Center	558-9262	34262
		<b>Faculty of Religion</b>		
558-4536	44536	Dean	558-4856	44856
558-8434	88434	Biomedical and Clinical Ethics	558-4856	44856
558-4956	44956	Center for Christian Bioethics	558-0336	80336
558-4956	44956	Clinical Ministry	558-0336	80336
558-8433	88433	Center for Spiritual Life and	558-4856	44856
558-1000	ext. 43983	Wholeness	558-0336	80336
558-4536	44536	Religion and the Sciences	558-4856	44856

***The Schools:***

**Allied Health Professions**

558-4599	44599	Admissions	558-4291	44291-attn. Admissions
558-4545	44545	Dean	558-4291	44291-attn. Dean
558-4932	44932	Cardiopulmonary Sciences	558-4701	44701-attn. CPSC
558-4966	44966	Clinical Laboratory Science	558-0458	80458-attn. CLSC
558-4976	44976	Health Information Management	558-0404	80404-attn. HLIN
558-7389	87389	Health Science (B.S., Japan only)	558-0982	80982-attn. HSCI
558-4593	44593	Nutrition and Dietetics	558-4291	44291-attn. DTCS
558-4628	44628	Occupational Therapy	558-0239	84239-attn. OPTH
558-4948	44948	Occupational Therapy Assistant	558-0239	84239-attn. OCTA
558-4632	44632	Physical Therapy	558-4291	44291-attn. PHTH
558-4634	44634	Physical Therapist Assistant	558-4291	44291-attn. PAST
558-4931	44931	Radiation Technology	558-4291	44291-attn. RTCH
558-4998	44998	Speech-Language	558-4291	44291-attn. SPPA
		Pathology/Audiology		
558-4998	47224	Speech-Language Pathology Assistant	558-4291	44291-attn. SLPA

<b>Off-campus PHONE:</b>	<b>On-campus PHONE:</b>		<b>Off-campus FAX:</b>	<b>On-campus FAX:</b>
558-4222	1616	<b>Dentistry</b>		
558-4621	44621	Admissions	558-4211	44211
558-4683	44683	Dean	558-0483	80483
558-8624	88624	Advanced Programs	558-0122	80122
558-4601	44601	Dentistry Program	558-4211	44211
558-4631	44631	Dental Hygiene Program	558-0313	80313
558-4669	44669	International Dentist Program	558-0133	80133
558-4790	44790	SD Student Affairs	558-4211	44211
<b>Graduate</b>				
558-4529	44529	Admissions	558-4859	44859
558-4528	44528	Dean	558-0441	80441
<b>Medicine</b>				
558-4462	44462	Admissions	558-4146	44146
558-4467	44467		558-0359	80359
<b>Nursing</b>				
558-1000	ext. 44360	Admissions	558-4134	44134
558-4923	44923	Dean	558-0175	80175
558-4517	44517	Graduate	558-0225	80225
558-8061	88061	Undergraduate	558-0719	80719
558-8060	88060	International Nursing	558-0643	80643
558-7122	87122		558-0224	80224
<b>Pharmacy</b>				
558-4529	44529	Admissions	558-4859	44859
558-4528	44528	Dean	558-0441	80441
<b>Public Health</b>				
558-4546	44546	Admissions/Academic Records	558-4087	44087
558-4694	44694	Dean	558-4087	44087 attn. Admissions
558-4578	44578	Environmental and Occupational Health	558-4087	44087 attn. Dean
558-8750	88750	Epidemiology and Biostatistics	558-0493	84493 attn. ENVH
558-8750	44590	Health Administration	558-0126	80126 attn. EPDM/STAT
558-4573	44573	Health Promotion and Education	558-0469	80469 attn. HADM
558-4575	44575	International Health	558-0471	80471 attn. HPRO
558-4902	44902	Maternal and Child Health	558-0389	80389 attn. INTH
558-4575	44575	Nutrition	558-0471	80471 attn. MCH
558-4598	44598	Preventive Medicine Residency Program	558-4095	44095 attn. NUTR
558-4918	44918		558-0630	80630 attn. PMR



	<b>WEB SITE:</b>	<b>EMAIL:</b>
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<b>Teaching Learning Center</b>	<a href="http://www.llu.edu/llu/tlc">www.llu.edu/llu/tlc</a>	
<b>University Records</b>		<a href="mailto:registrar@univ.llu.edu">registrar@univ.llu.edu</a>
<b>The Faculty of Religion</b>	<a href="http://www.llu.edu/llu/fr/">http://www.llu.edu/llu/fr/</a>	
Coordinator of M.A. in Bio- medical and Clinical Ethics	<a href="http://ethics.llu.edu/">http://ethics.llu.edu/</a>	<a href="mailto:mcarr@rel.llu.edu">mcarr@rel.llu.edu</a>
Coordinator of M.A. in Clinical Ministry	<a href="http://ministry.llu.edu/">http://ministry.llu.edu/</a>	<a href="mailto:ssorajjakool@rel.llu.edu">ssorajjakool@rel.llu.edu</a>
Coordinator of M.A. in Religion and the Sciences	<a href="http://www.llu.edu/llu/fr/ma/index.html">http://www.llu.edu/llu/fr/ma/ index.html</a>	<a href="mailto:rrice@rel.llu.edu">rrice@rel.llu.edu</a>
Center for Christian Bioethics	<a href="http://www.llu.edu/llu/bioethics/">http://www.llu.edu/llu/bioethics/</a>	<a href="mailto:hmorrison@ethicscenter.llu.edu">hmorrison@ethicscenter.llu.edu</a>
Center for Spiritual Life and Wholeness	<a href="http://www.llu.edu/llu/wholeness/">http://www.llu.edu/llu/wholeness/</a>	<a href="mailto:innerweave@som.llu.edu">innerweave@som.llu.edu</a>
<b><i>The Schools:</i></b>		
<b>Allied Health Professions</b>	<a href="http://www.llu.edu/llu/sahp/">http://www.llu.edu/llu/sahp/</a>	
Admissions		<a href="mailto:admissions@sahp.llu.edu">admissions@sahp.llu.edu</a> attn. admissions
Cardiopulmonary Sciences		<a href="mailto:admissions@sahp.llu.edu">admissions@sahp.llu.edu</a> attn. CPSC
Clinical Laboratory Science		<a href="mailto:admissions@sahp.llu.edu">admissions@sahp.llu.edu</a> attn. CLSC
Health Information Management		<a href="mailto:admissions@sahp.llu.edu">admissions@sahp.llu.edu</a> attn. HLIN
Nutrition and Dietetics		<a href="mailto:admissions@sahp.llu.edu">admissions@sahp.llu.edu</a> attn. DTCS
Occupational Therapy		<a href="mailto:admissions@sahp.llu.edu">admissions@sahp.llu.edu</a> attn. OCTH
Physical Therapy		<a href="mailto:admissions@sahp.llu.edu">admissions@sahp.llu.edu</a> attn. PHTH
Radiation Technology		<a href="mailto:admissions@sahp.llu.edu">admissions@sahp.llu.edu</a> attn. RTCH
Speech-Language Pathology/ Audiology		<a href="mailto:admissions@sahp.llu.edu">admissions@sahp.llu.edu</a> attn. SPPA
<b>Dentistry</b>	<a href="http://www.llu.edu/llu/dentistry/">http://www.llu.edu/llu/dentistry/</a>	<a href="mailto:DentAO@sd.llu.edu">DentAO@sd.llu.edu</a>
Admissions	<a href="http://www.llu.edu/llu/dentistry/">http://www.llu.edu/llu/dentistry/</a>	<a href="mailto:sDavis@sd.llu.edu">sDavis@sd.llu.edu</a>
<b>Graduate</b>	<a href="http://www.llu.edu/llu/grad/">http://www.llu.edu/llu/grad/</a>	<a href="mailto:bripon@univ.llu.edu">bripon@univ.llu.edu</a>
Admissions	<a href="http://www.llu.edu/llu/grad/">http://www.llu.edu/llu/grad/</a>	<a href="mailto:gradschool@univ.llu.edu">gradschool@univ.llu.edu</a>
<b>Medicine</b>	<a href="http://www.llu.edu/llu/medicine/">http://www.llu.edu/llu/medicine/</a>	<a href="mailto:ledwards@som.llu.edu">ledwards@som.llu.edu</a>
<b>Nursing</b>	<a href="http://www.llu.edu/llu/nursing/">http://www.llu.edu/llu/nursing/</a>	<a href="mailto:admissions_sn@sn.llu.edu">admissions_sn@sn.llu.edu</a>
<b>Pharmacy</b>	<a href="http://www.llu.edu/llu/sps/">http://www.llu.edu/llu/sps/</a>	<a href="mailto:pharmacy@univ.llu.edu">pharmacy@univ.llu.edu</a> <a href="mailto:dcarrington@univ.llu.edu">dcarrington@univ.llu.edu</a>
<b>Public Health</b>	<a href="http://www.llu.edu/llu/sph/">http://www.llu.edu/llu/sph/</a>	<a href="mailto:sphinfo@sph.llu.edu">sphinfo@sph.llu.edu</a>
Recruitment and on-line application for admission and information	<a href="http://www.llu.edu/llu/sph/">http://www.llu.edu/llu/sph/</a>	