

Military Science

(College of Letters and Science)

Reserve Officers' Training Corps (ROTC), Army

Mark W. Connelly, Lt. Col., Chairperson of the Department, Professor of Military Science

Department Office. 125 Hickey Gymnasium (530) 752-5211

Faculty

Major Daniel Williamson, Associate Professor
Major Jason D. Hioco, Assistant Professor
Major Stephen F. Heringer, Assistant Professor

Program of Study

The Military Science Department offers hands-on training in management and leadership. The program stresses the following Army Values: loyalty, duty, respect, selfless-service, honor, integrity, and personal courage. The program also stresses leadership dimensions as taught in the classes. Also stressed are current events, national and international politics, military affairs, ethics training, and human relations with emphasis on eliminating racial and gender discrimination. Management and leadership are taught using the U.S. Army as a model. Military skills (such as drill and ceremonies, map reading, and squad tactics) are taught to the extent necessary to create an environment where students can enter leadership positions and apply theories taught in the classroom. Students learn by doing. The program assists students in all academic fields to prepare for positions of leadership in military or civilian careers.

The department offers two program tracks: (1) a purely academic track; (2) a pre-commissioning track for those desiring a commission in the U.S. Army. The academic track entails no obligation to the military and is open to all students. Students pursuing the academic track do not wear a uniform or otherwise participate in extra-curricular activities designed as part of the pre-commissioning process. Activities for all students include the Ranger Club (a club designed for adventure activities such as rappelling, white-water rafting, orienteering, and patrolling) and intramural sports teams.

Students who desire a commission in the U.S. Army participate in both the academic portion of the program and in the leadership laboratories and extra-curricular activities designed to enhance their leadership and technical skills. They wear uniforms to leadership laboratories and selected classes and become ROTC cadets. Students may be cadets in the lower division courses without incurring a military obligation. Students participating in the upper division pre-commissioning program incur a military obligation. See below for details. Extra-curricular activities for cadets include an intercollegiate sports team (Ranger Challenge), the university color guard, a military honor society, and opportunities to participate in field training exercises.

Department Programs

Students are enrolled in Military Science under one of two programs.

Four-Year Program

There is no military obligation associated with attendance in lower division courses. Students are enrolled in the basic course (lower division) for the first two years on a voluntary basis. Admission to the advanced course (upper division) is by application from second-year lower division students who meet the academic, physical, and military aptitude requirements. Qualified veterans can enter the advanced course immediately because of their military service experience, upon approval by the Department Chairperson.

Juniors receive \$450 subsistence per month, and Seniors \$500 per month, after executing a contract agreeing to complete the courses. During the course,

all Military Science text books, uniforms and equipment are provided without cost. Students are given leadership development experience at Leader Development and Assessment Course (Operation Warrior Forge) between their third and fourth years of the course. Emphasis is on individual participation, leadership development and the capability to function effectively in positions of significant responsibility.

Two-Year Program

The two-year program is for students, including graduate students, who have not attended lower division Military Science classes. In lieu of lower division courses an applicant attends a six-week summer program, Leaders Training Course (LTC) which is voluntary and carries no military obligation. Applicants are paid and transportation costs covered. Applications are accepted at anytime prior to the student's junior year; graduate students are also accepted. All other provisions explained above for the upper division course apply to the two-year program.

Scholarship Program

The U.S. Army offers four-, three-, and two-year Active Duty scholarships, two-year Reserve Forces Duty, and two-year Dedicated National Guard scholarships to students planning to attend or attending UC Davis. The U.S. Army ROTC scholarship package pays tuition and educational fees. Also included in all scholarships is a flat rate of \$900 per year for textbooks.

The Army Reserve Officers' Training Corps four-year Active Duty merit scholarships are awarded to qualified high school seniors in a national competition each year. There are three cycles available for submission of the four-year scholarship application. As high school seniors, students compete for the Regular Cycle scholarship by submitting their complete application. Interested applicants should apply at <http://www.monroe.army.mil> or contact UC Davis, Department of Military Science at (530) 752-7682.

The three-year Active Duty and two-year Reserve Forces Duty scholarships are awarded to college students who are already attending UC Davis or transferring from a junior college to UC Davis. Students apply for and are awarded these Army scholarships through the Military Science Department.

Leadership Laboratory

During the course of the school year, two hours per week are spent conducting practical exercises. Classes emphasize adventure activities including offense, defense and patrolling techniques, weapons familiarization, rappelling, rope bridging, obstacle courses, leadership reaction course, and land navigation. All cadets are required to attend leadership laboratories for practical leadership experience and to prepare for attendance at Warrior Forge, held at Fort Lewis, Washington.

Academic Credit

College of Agricultural and Environmental Sciences. The Bachelor of Science degree in agriculture requires the completion of 180 units. Military Science courses are counted in the unit allowance for electives.

College of Engineering. Military Science units are acceptable toward the requirements for the Bachelor of Science degree to the extent of the unrestricted elective units available in the curriculum being followed.

College of Letters and Science. The Bachelor of Arts degree requires the completion of 180 units. Military Science courses are counted in the allowance for electives.

School of Veterinary Medicine. The number of Military Science units acceptable toward the Bachelor of Science degree in Veterinary Medicine is on an individual program basis approved by the Dean of the School. Graduates with the D.V.M. degree may apply for direct commission in the United States Army Veterinary Corps.

Courses in Military Science (MSC)

Lower Division Courses

11. Roles and Organization of the U.S. Army (1)

Lecture—1 hour. Prerequisite: lower division standing. Constitutional and legal basis of the Army, organization and strategic roles in times of war and peace, and "total Army" concept. Impact of civil-military relations and Soviet military power on role of Army studied in context of current problems.—I. (I.)

12. Introduction to Military Leadership (2)

Lecture—2 hours. Prerequisite: lower division standing, and consent of instructor. Introduction to leadership theories used in military organizations. Course surveys the duties and responsibilities of junior Army officers, the general environment in which they work, and leadership roles performed. Introduces military map reading skills.—I. (I.)

13. Introduction to Basic Military Operations (1)

Lecture—1 hour. Prerequisite: lower division standing. Basic military tactical theories and their application at the individual and squad level. Course introduces military tactical operations, and covers military first aid. Principles of war as introduced in course 11 are applied to offensive and defensive tactics.—III. (III.)

14A. Introduction to Military Leadership Skills (0.5)

Laboratory—2 hours. Prerequisite: lower division standing and consent of instructor; completion of all previous laboratories. Personal and organizational leadership skills introduced in leadership laboratory. Extensive supervised leadership experiences conducted in a military environment. Basic military skills necessary to function in a leadership role are also covered. (P/NP grading only.)—I. (I.)

14B. Introduction to Military Leadership Skills (0.5)

Laboratory—2 hours. Prerequisite: lower division standing and consent of instructor; completion of all previous laboratories. Development of leadership and military skills introduced in course 14A is continued with emphasis on the individual's role in the squad, the basic organizational element of the Army. As students gain capabilities, supervisory controls are reduced. (P/NP grading only.)—II. (II.)

14C. Introduction to Military Leadership Skills (0.5)

Laboratory—2 hours. Prerequisite: lower division standing and consent of instructor; completion of all previous laboratories. Students demonstrate skill levels required for promotion to non-commissioned officer level. Use of chain of command from company through individual levels emphasized. Interrelationship of squad and platoon organizations is explored. (P/NP grading only.)—III. (III.)

21. Military History (2)

Lecture—2 hours. Prerequisite: lower division standing; course 11 or consent of instructor. Survey of military history from 1900 to present, focusing on World War I, World War II, the Korean War, and the Vietnam War.—III. (III.)

22A. Intermediate Military Leadership and Operations I (2)

Lecture—2 hours. Prerequisite: lower division standing; course 12 or consent of instructor. Develops and exercises personal military leadership skills in extensive supervised leadership laboratories. Intermediate level military skills necessary for leadership roles as junior non-commissioned officers are developed. Students perform in role of junior non-commissioned officers.—I. (I.)

22B. Intermediate Military Leadership and Operations II (2)

Lecture—2 hours. Prerequisite: lower division standing; course 22A or consent of instructor. Continuation of course 22A. Individual leadership traits identified in course 22A are studied in more depth enabling each student to improve on targeted weaknesses. Instruction is presented in intermediate defensive tactics at the squad level.—II. (II.)

Quarter Offered: I=Fall, II=Winter, III=Spring, IV=Summer; 2009-2010 offering in parentheses

General Education (GE) credit: ArtHum=Arts and Humanities; SciEng=Science and Engineering; SocSci=Social Sciences; Div=Social-Cultural Diversity; Wrt=Writing Experience

24A. Individual Military Leadership Skills (0.5)

Laboratory—2 hours. Prerequisite: lower division standing; courses 14A, 14B, 14C and 21, or consent of instructor. Develops and exercises personal military leadership skills in extensive supervised leadership laboratories. Intermediate level military skills necessary for leadership roles as junior non-commissioned officers are developed. Students perform in role of junior non-commissioned officers. (P/NP grading only.)—I. (I.)

24B. Individual Military Leadership Skills (0.5)

Laboratory—2 hours. Prerequisite: lower division standing; courses 14A, 14B, 14C and 21, or consent of instructor. Personal supervisory and leadership styles are developed in a supervised laboratory environment. Students are rotated through squad and team-level supervisory positions, given responsibility concomitant with positions. (P/NP grading only.)—II. (II.)

24C. Individual Military Leadership Skills (0.5)

Laboratory—2 hours. Prerequisite: lower division standing; courses 14A, 14B, 14C and 21, or consent of instructor. Students are prepared for transition from junior leader to senior non-commissioned officer. Chain of command and hierarchical responsibilities and reporting requirements are demonstrated in a laboratory setting. (P/NP grading only.)—III. (III.)

Upper Division Courses**131. Advanced Military Leadership and Management (2)**

Lecture—2 hours. Prerequisite: upper division standing; course 22A or consent of instructor. Course addresses different types of power and influence a military leader may use, reviews counseling techniques, and introduces basic management skills. Instruction provided on the various branches in which a commissioned officer may serve.—III. (III.)

132A. Advanced Military Operations (2)

Lecture—2 hours. Prerequisite: upper division standing; course 22B or consent of instructor. First phase of advanced military tactical operations. Advanced work on topographical maps, navigation, and orienting techniques. Instruction is also provided on resource planning techniques and military intelligence.—I. (I.)

132B. Advanced Military Operations (2)

Lecture—2 hours. Prerequisite: upper division standing; course 132A or consent of instructor. Continuation of course 132A. Military tactical theories and their application in offense and defense are presented at the platoon and company level. Course covers in-depth analysis of the principles of war related to offensive and defensive operations.—II. (II.)

134A. Military Organizational Leadership Skills (0.5)

Laboratory—2 hours. Prerequisite: upper division standing; courses 24A-24B-24C or consent of instructor. Students develop interpersonal and management skills by practical application of leadership of military organizations in a supervised leadership laboratory. Advanced-level military skills presented. Students fulfill the roles of senior non-commissioned officers. (P/NP grading only.)—I. (I.)

134B. Military Organizational Leadership Skills (0.5)

Laboratory—2 hours. Prerequisite: upper division standing; courses 24A-24B-24C or consent of instructor. As more complex material is presented in classroom, the laboratory environment becomes more challenging. Students serve as senior non-commissioned officers in squad, platoon and company levels, given appropriate authority and responsibility. (P/NP grading only.)—II. (II.)

134C. Military Organizational Leadership Skills (0.5)

Laboratory—2 hours. Prerequisite: upper division standing; courses 24A-24B-24C or consent of instructor. Students prepared for advanced summer

training experience by extensive requirements to plan, organize and conduct military operations in field environments; individual leadership potential is closely assessed in the laboratory environment. (P/NP grading only.)—III. (III.)

141. U.S. Army Management Systems (2)

Lecture—2 hours. Prerequisite: upper division standing and course 131. Army decision making, personnel and equipment management. Includes command and staff functions, training, intelligence gathering, techniques for the conduct of meetings, and logistics management procedures at unit level.—III. (III.)

142. Military Law (2)

Lecture—2 hours. Prerequisite: upper division standing and course 141. Analysis of the American Military Justice System, the Uniform Code of Military Justice, the Hague and Geneva Conventions, and customary law of war. Includes detailed study of selected procedures of military justice system.—II. (II.)

143. Military Ethics and Professionalism (2)

Lecture—2 hours. Prerequisite: upper division standing and course 142. Profession of arms, its characteristics, uniqueness, roles, and responsibilities. Discussion topics include the professional soldier's responsibilities to the Army and the Nation, and the need for ethical conduct. Case studies are used to develop ethical decision making skills.—I. (I.)

144A. Military Training Leadership Skills (0.5)

Laboratory—2 hours. Prerequisite: upper division standing; courses 134A, 134B, 134C, and 141. Develops and exercises the leadership skills necessary to plan, coordinate and conduct a training program through practical application under supervision. Emphasis on analysis of objectives, instructor planning, media utilization and evaluation of learning. Students perform as cadet officers. (P/NP grading only.)—I. (I.)

144B. Military Training Leadership Skills (0.5)

Laboratory—2 hours. Prerequisite: upper division standing; courses 134A, 134B, 134C, and 141. Requirements for training of all other levels of the cadet corps are given to students for conduct in laboratory environment (under supervision). Students placed in realistic role of junior officer with appropriate level of responsibility. Students perform as cadet staff officers. (P/NP grading only.)—II. (II.)

144C. Military Training Leadership Skills (0.5)

Laboratory—2 hours. Prerequisite: upper division standing; courses 134A, 134B, 134C, 141. Final laboratory in military science sequence; students are prepared for final testing and certification prior to commissioning as officers. Students will demonstrate all leadership skills necessary to commissioned officers. Students perform leadership tasks at platoon, company, and battalion levels. (P/NP grading only.)—III. (III.)

191. Special Studies in Military Science (2)

Independent study—6 hours. Prerequisite: consent of department chair, and courses 131, 132A, 132B, 141, 142, 143. Intensive examination of one or more special problems in military science. Possible areas of study include leadership dimensions, principles of war, air-land battle imperatives, military strategy, the operational art and professional ethics. May be repeated twice for credit when topic differs. (P/NP grading only.)

Aerospace Studies (Air Force)

The Air Force Reserve Officer's Training Corps (AFROTC) is an educational program providing training in leadership, management, communications and military proficiency on college and university campuses. It also provides an opportunity to obtain a commission as a second lieutenant in the Air Force and enter the active duty forces after you complete a bachelor's or a graduate degree. The skills you acquire will become valuable assets for any subsequent career you choose.

The program is normally four years long, but a flexible design allows students to complete the curriculum in as little as two years. Undergraduate scholarships are available, but are not necessary for participation. Until you accept a scholarship or enter your junior year of the program, you have no obligation to join the Air Force. There are no costs for AFROTC uniforms, books, or classes.

UC Davis students have the option of taking the Air Force program on the UC Berkeley or CSU Sacramento campus.

Qualifications

Freshmen/Sophomore applicants must:

- Be full-time college students in good academic standing
- Have good moral character
- Be in strong physical condition
- Be at least 14 years old

Additionally, Juniors/Seniors/Scholarship recipients must:

- Be United States citizens or in the process of applying for citizenship
- Be 18 years old (or 17 years old with consent of parent or guardian)
- Pass the Air Force Officer Qualifying Test
- Pass a medical examination
- Be under the age of 30 at time of graduation (may be waived)

Scholarships

Opportunities for four-year and three-year undergraduate scholarships are better than ever. Scholarships cover the full cost of tuition, books and required fees at the University of California and are available for eligible high school seniors. It also includes \$150 monthly stipend during the school year. If you are a junior or senior in high school and plan on attending a college or university in Northern California, you can write, call or visit the local AFROTC detachments for a scholarship application. Applications are also available from local Air Force recruiters or your high school guidance counselors.

All scholarships are merit-based and consider a variety of factors: cumulative GPA, class standing, SAT/ACT scores, academic awards/achievements, leadership ability, athletic involvement, extracurricular activities, community service and letters of recommendation. All scholarship recipients must graduate and be commissioned before their 27th birthday (may be waived for prior military personnel). A personal interview with an Air Force officer is also part of the application process. Prior to activating a scholarship, students must meet AFROTC medical and physical fitness standards. All scholarships must be used at an accredited college or university that offers AFROTC on campus or through cross-registration. The program is available at more than 700 universities and colleges nationwide.

If you are already in college, contact our office directly and apply for enrollment into AFROTC as a cadet. Three- and two-year full tuition scholarships are available for all academic majors, especially scientific and technical majors such as engineering, atmospheric science, math, computer science, and physics. GPA Scholarship requirements for nontechnical majors are slightly higher. Applicants are primarily evaluated on their leadership ability and academic performance. Scholarship boards meet throughout the year for scientific and technical majors and in July for all academic majors. Scholarships also include a \$150 monthly stipend throughout the school year, required books and fees. Other loans and grants may be used towards room and board costs.

Challenging Careers

All commissioned officers enter the Air Force as second lieutenants for a 4-year active duty service commitment. Pilots and navigators serve longer commitments, based on training requirements. Once on active duty, you'll be given instant responsibility

in one of 32 primary career fields. Opportunities to fly are better than ever. Whether you are piloting the F-22 fighter, supervising 150 aircraft maintainers on the flightline, or caring for sick personnel in the emergency room, you will be rewarded knowing that you are making a difference.

AFROTC at UC Berkeley

AFROTC Detachment 85
176 Hearst Gym, Berkeley, CA, 94720-3610
(800) 852-5747 or (510) 642-3572;
brown@uclink4.berkeley.edu;
<http://airforceroic.berkeley.edu>

To receive hands-on leadership and management practice, freshmen and sophomores take a one-hour academic course and a two-hour Leadership Laboratory each week; juniors and seniors take a three-hour course plus the lab. All units can be used as elective credit towards graduation. See the Military Sciences course listings in the UC Berkeley catalog. Classes are held during the fall and spring semesters and the curriculum includes the history of airpower, leadership and management topics, communication skills, and national security issues.

Between the sophomore and junior years, cadets compete to attend a four- or six-week field training program at a designated Air Force base. This competitive program consists of physical conditioning, outdoor survival training, career and aircraft orientations and an evaluation of leadership potential. Additional optional training opportunities are available during the summer months and include the Royal Air Force Exchange Program, Pentagon Internships, Jump School and Glider Training at the Air Force Academy, and summer job shadowing. Students are also encouraged to participate in optional orientation flights, base visits, and community service projects throughout the school year.

AFROTC at CSU Sacramento

California State University Sacramento
Public Service Building, Room 208
6000 J Street
Sacramento, CA 95819-6094
(916) 278-7315

The CSUS Department of Aerospace Studies offers two-, three-, or four-year programs leading to a commission in the U.S. Air Force. About 30 percent of the corps commute to CSUS from UC Davis. All course work (12 or 16 semester units) is completed on the CSUS campus. Drills and courses are normally offered on Tuesdays, Wednesdays, and Thursdays. Field training is conducted at an active Air Force base during part of the summer, normally between the student's sophomore and junior years.

Upon completion of the program (integrated with UC Davis' quarter system) and all requirements for a bachelor's degree, cadets are commissioned as second lieutenants in the Air Force and serve a minimum of four years on active duty. Graduates who are qualified and are selected may enter pilot or navigator training after graduation, or serve in a specialty consistent with their academic major, individual goals, and existing Air Force needs. Graduates may request a delay of entry to active duty to continue their education or may apply for Air Force sponsored graduate study to begin immediately upon entry to active duty. Due to firm scheduling requirements for the AFROTC program, students are encouraged to work closely with their academic advisers in planning their academic program.

AFROTC offers 3-year and 2-year scholarships to qualified students. Applications are accepted in any academic discipline. Express scholarships are currently available for qualified students majoring in electrical engineering and meteorology. Express scholarships pay up to \$15,000 annually in tuition and fees, \$480 per year in textbooks, and \$150 per month stipend.

Applications should normally be no later than the first quarter of a student's sophomore year. Juniors, seniors, and graduate students may also apply under certain conditions. Contact the Unit Admis-

sions Officer in the Aerospace Studies Department at CSUS (916) 278-7315 for information.

Naval ROTC

Department of Naval Science
152 Hearst Gymnasium, UC Berkeley
Berkeley, CA 94270-3640
(510) 642-3551; <http://navyrotc.berkeley.edu>

UC Davis students may participate in the Navy and Marine Corps ROTC program at UC Berkeley. The program is 4 years long and includes courses and weekly professional development laboratories (drill) at UC Berkeley. Students normally compete for national scholarships as high school seniors, although interested students may enroll as freshmen or sophomores and compete for scholarships based on successful participation in the program. A student who satisfactorily completes an ROTC program and is awarded a degree from UC Davis receives an active duty commission as a Second Lieutenant in the U.S. Marine Corps or an Ensign in the U.S. Navy.

Navy option students take the following courses:

Freshman year:

- NS 1 Introduction to Naval Science
- NS 2 Sea Power and Maritime Affairs

Sophomore year:

- NS 3 Leadership and Management
- NS 10 Naval Ship Systems I

Junior year:

- NS 12A Navigation and Naval Operations I
- NS 12B Navigation and Naval Operations II

Senior year:

- NS 401 Naval Ship Systems II
- NS 412 Leadership and Ethics

In lieu of NS401, NS10, NS12A and NS12B, Marine Corps students participate in Marine Seminars and complete MA154, History of Littoral Warfare and MA20, Evolution of Warfare (or a designated equivalent).

Scholarship students are required to complete a number of other courses at Davis, including one year each of calculus, physics, and English, and one quarter each of computer science, and military history or national security policy.

Interested students should contact the Department of Naval Science at UC Berkeley at the address above to obtain information and apply.

Molecular Biosciences

See [Veterinary Medicine, School of](#), on page 502.

Molecular and Cellular Biology

(College of Biological Sciences)

Michael E. Dahmus, Ph.D., Chairperson of the Department

Department Office. 149 Briggs Hall
(530) 752-3611; <http://www.mcb.ucdavis.edu>

Faculty

Primary Members

Peter B. Armstrong, Ph.D., Professor
Enoch Baldwin, Ph.D., Associate Professor
Sean M. Burgess, Ph.D., Associate Professor
Kenneth C. Burtis, Ph.D., Professor
Judy Callis, Ph.D., Professor
Frederic L. Chedin, Ph.D., Assistant Professor
R. Holland Cheng, Ph.D., Professor
Michael E. Dahmus, Ph.D., Professor
Roy H. Doi, Ph.D., Distinguished Professor

Bruce W. Draper, Ph.D., Assistant Professor
JoAnne Engebrecht, Ph.D., Associate Professor
Carol A. Erickson, Ph.D., Professor
Marilynn E. Etzler, Ph.D., Professor
Oliver Fiehn, Ph.D., Associate Professor
Andrew Fisher, Ph.D., Professor
(Chemistry)

Charles S. Gasser, Ph.D., Professor
Kenneth B. Kaplan, Ph.D., Associate Professor
John A. Kiger, Ph.D., Professor
Ian Korf, Ph.D., Assistant Professor
J. Clark Lagarias, Ph.D., Professor
Julie A. Leary, Ph.D., Professor
Francis J. McNally, Ph.D., Associate Professor
Richard W. Michelmore, Ph.D., Professor (*Vegetable Crops; Medical Microbiology and Immunology*)
Diana G. Myles, Ph.D., Professor
Jeanette E. Natzle, Ph.D., Associate Professor
Jodi Nunnari, Ph.D., Professor
Edmund R. Powers, Ph.D., Professor
Raymond L. Rodriguez, Ph.D., Professor
Lesilee S. Rose, Ph.D., Associate Professor
Jonathan M. Scholey, Ph.D., Professor
Irwin H. Segel, Ph.D., Distinguished Professor
Henning Stahlberg, Ph.D., Associate Professor
Daniel A. Starr, Ph.D., Assistant Professor
Michael D. Toney, Ph.D., Professor
(Chemistry)

David K. Wilson, Ph.D., Professor

Secondary Section Members

John J. Harada, Ph.D., Professor
Wolf-Dietrich Heyer, Ph.D., Professor
Stephen C. Kowalczykowski, Ph.D., Distinguished Professor
William J. Lucas, Ph.D., Professor
Brian Mulloney, Ph.D., Professor
Sharman O'Neill, Ph.D., Professor
Pamela A. Pappone, Ph.D., Professor
Martin L. Privalsky, Ph.D., Professor
Steven M. Theg, Ph.D., Professor
Larry N. Vanderhoef, Ph.D., Professor
Martin Wilson, Ph.D., Professor

Emeriti Faculty

Ronald J. Baskin, Ph.D., Professor Emeritus
Don M. Carlson, Ph.D., Professor Emeritus
Sterling Chaykin, Ph.D., Professor Emeritus
James S. Clegg, Ph.D., Professor Emeritus
Eric E. Conn, Ph.D., Professor Emeritus
Academic Senate Distinguished Teaching Award, UC Davis Prize for Teaching and Scholarly Achievement
Richard S. Criddle, Ph.D., Professor Emeritus
John H. Crowe, Ph.D., Professor Emeritus
David W. Deamer, Ph.D., Professor Emeritus
Gordon J. Edlin, Ph.D., Professor Emeritus
Richard H. Falk, Ph.D., Professor Emeritus
Leslie D. Gottlieb, Ph.D., Professor Emeritus
Melvin M. Green, Ph.D., Professor Emeritus
Robert D. Grey, Ph.D., Professor Emeritus,
Academic Senate Distinguished Teaching Award
Jerry L. Hedrick, Ph.D., Professor Emeritus
Distinguished Graduate Mentoring Award
Mark G. McNamee, Ph.D., Professor Emeritus
Carl W. Schmid, Ph.D., Professor Emeritus
Che-Kun J. Shen, Ph.D., Professor Emeritus
Larry R. Sprechman, Ph.D., Senior Lecturer Emeritus
Paul K. Stumpf, Ph.D., Professor Emeritus

Affiliated Faculty

Benjamin F. Edwards, Ph.D., Lecturer
Kenneth L. Hill, Ph.D., Lecturer
Deborah A. Kimbrell, Ph.D., Lecturer
Judith A. Kjelstrom, Ph.D., Academic Coordinator/
Lecturer
Leann L. Lindsay, Ph.D., Lecturer
Larry Z. Morand, Ph.D., Lecturer
Alan B. Rose, Ph.D., Lecturer
Carol M. Rubin, Ph.D., Lecturer
Mark F. Sanders, Ph.D., Lecturer
Leigh D. Segel, Ph.D., Lecturer

Molecular and Cellular Biology offers three major programs: Biochemistry and Molecular Biology, Cell Biology, and Genetics.