



1111 Franklin Street
Oakland, California 94607-5200
Phone: (510) 987-9074
Fax: (510) 987-9086
<http://www.ucop.edu>

April 13, 2011

The Honorable Mark Leno
Chair, Joint Legislative Budget Committee
1020 N Street, Room 553
Sacramento, California 95814

Dear Senator Leno:

Pursuant to Item 6440-001-0001, Provision 11, of the 2010 Budget Act, enclosed is the University of California's report to the Legislature on *FY 2010-11 Nursing Enrollment Levels*.

If you have any questions regarding this report, Associate Vice President Debora Obley would be pleased to speak with you. She can be reached by telephone at (510) 987-9112, or by email at Debora.Obley@ucop.edu.

With best wishes, I am,

Sincerely yours,

Mark G. Yudof
President

Enclosure

cc: Mr. Gregory Schmidt, Secretary of the Senate
Ms. Jody Martin, Joint Legislative Budget Committee
Ms. Tina McGree, Legislative Analyst's Office
Mr. Dotson Wilson, Chief Clerk of the Assembly
Ms. Amy Leach, Office of the Chief Clerk of the Assembly
Ms. Diane Anderson, Legislative Counsel Bureau
Provost and Executive Vice President Lawrence Pitts
Senior Vice President John Stobo
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Associate Vice President and Director Steve Juarez
Associate Vice President Cathryn Nation
Associate Vice President Debora Obley
Executive Director Jenny Kao

Report on FY2010-11 Nursing Enrollment Levels

May 2011

Legislative Report

**An investment in UC pays
dividends far beyond what
can be measured in dollars.
An educated, high-achieving
citizenry is priceless.**

UNIVERSITY OF CALIFORNIA

Report on FY2010-11 Nursing Enrollment Levels

This report is submitted by the University of California (UC) in response to language contained in the 2010 Budget Act, which states:

“11(c). The University of California shall report to the Legislature and the Governor by May 1, 2011, on the total enrollment in the 2010-11 academic year in the baccalaureate nursing degree programs, the entry-level clinical and master’s degree nursing programs, and the master’s of science in nursing degree programs.”

It should be noted that no additional State General funds were provided in 2010-11 for baccalaureate, or entry-level master’s and traditional master’s degree level, nursing students. Federal Workforce Investment Act (WIA) funds are, however, anticipated to temporarily help fund a limited number of nursing enrollments in 2010-11.

I. ENROLLMENT LEVELS IN THE 2010 ACADEMIC YEAR

Although the 2010 Budget Act requires UC to update the Legislature and the Governor on baccalaureate, and master’s degree enrollments only, this report provides nursing enrollment data for all UC nursing programs (including doctoral programs). This information is included in order to provide a more comprehensive view of UC efforts to address statewide nursing needs and increase educational opportunities for students.

Currently, nursing programs are offered at four UC campuses – Los Angeles, San Francisco, Irvine, and most recently Davis. UC remains focused on its role to train new nursing faculty and to help to rebuild the pool of baccalaureate-prepared students who can continue on to graduate study in nursing.

Doctoral Program Enrollments. The UCLA, UCSF, and UCD Schools of Nursing offer research-focused nursing doctoral programs which grant a Doctor of Philosophy (PhD) degree. A total of 199 students are enrolled in UC doctoral nursing programs in 2010-11. UCLA enrolled a total of 47 doctoral students, UCSF enrolled 144 doctoral students, and UCD enrolled 8 students in their inaugural doctoral class.

Master’s Program Enrollments. UCLA, UCSF, UCI and UCD offered master’s level nursing programs. In 2010-11, UC enrolled a total of 820 students in master’s programs. UCLA enrolled a total of 304 students—106 students in their Master’s Entry Clinical Nursing (MECN) program, and an additional 198 students in the traditional master’s program. In that same year, UCSF enrolled 465 students in their Master of Science program. Students enter into this program either through the Master’s Entry Program in Nursing (MEPN) or the traditional master’s program. At UCI, 26 master’s level students were enrolled in 2010-11, the second year of their recently opened program. In fall 2010, UCD started a new master’s program in nursing (MS) with an initial cohort of 25 students.

Baccalaureate Program Enrollments. Both UCLA and UCI began new four-year undergraduate nursing programs in Fall 2006. In 2010-11, these campuses had a total of 406 undergraduate students enrolled across all years of study, 165 at UCI and 241 at UCLA. Included in this total were 17 students enrolled in a small UCLA “bridge” program designed for students who are already licensed as a registered nurse, have earned an Associate’s Degree in Nursing, and wish to earn a BS in preparation for advanced practice study at the graduate level.

Enrollments in UC Nursing Programs (2009-10 - 2010-11)

Program	2009-10	2010-11	Difference (2009-10 – 2010-11)
Doctor of Philosophy (PhD)	183	199	16 [^]
Master's Entry Clinical Nursing Program (MSN)	108	106	(2) [^]
Master's – Traditional (MSN/MS)*	734	714	(20) [^]
Bachelor's of Science (BS)**	420	406	(14)**
Total UC Enrollments	1,445	1,425	(20)[^]

[^] Represents a normal year-to-year fluctuation in actual student headcounts across existing nursing programs

* Includes students entering after one-year in the UCSF Master's Entry Program in Nursing

** Includes students in a small UCLA "bridge" program for Associate Degree nurses; In Fall 2010, UCLA decreased the number of applicants that were offered admissions to this program (from 24 to 10).

In its 2010-11 budget request, the University requested permanent funding for 25 graduate professional master's students and 8 graduate academic students at UC Davis, consistent with an agreement between UC Davis and the Gordon and Betty Moore Foundation given its vision for the school of nursing as a public-private partnership. Given the reality of dramatically reduced state resources, the University did not elect to request permanent funding for additional nursing students requested but not funded in 2008-09 and 2009-10. The 2010-11 enacted budget, again, did not provide new General Fund resources for nursing. In fact, the State provided even fewer resources to the University in 2010-11 relative to 2007-08. The severity of the state's fiscal crisis is such that all UC campuses had to make painful budget reductions in all educational programs.

Because of the strong demand for UC-educated nurses, the California Labor and Workforce Development Agency (CLWDA) in 2009 put forth a proposal in which, beginning in 2009-10, new, one-time federal Workforce Investment Act (WIA) funding provided over five years (approximately \$12 million dollars in total) would be available to UC through participation in the Governor's Nursing Education Initiative. These funds—which require annual approval by the Legislature—are intended for UC to train and graduate a limited number of new California nurses. Although UC has not yet received the WIA funds approved for 2010-11, UC nursing programs enrolled graduate nursing students (for which there were no State General Funds), consistent with the plan approved by CLDWA. Without the short-term WIA funds, UC would have needed to decrease nursing enrollments. Thus, during this budget crisis, the temporary solution used for 2010-11 nursing enrollments was necessary. However, this is not a sustainable solution over time.

Though budgetary circumstances remain difficult in the foreseeable future, the University intends to seek State General Fund support for these students through the regular budgetary process. Without new workload support, the University will need to develop plans to align enrollment levels with available resources.

II. FUTURE UC NURSING PLANS

UC recognizes the importance of addressing California's significant shortages of nurses and nursing faculty. However, the absence of permanent State support for the required increase in workload jeopardizes the expansion that has already occurred and that UC would plan to continue if instructional support were provided. Given uncertainties associated with the 2011-12 budget, UC is not yet able to project nursing enrollments for 2011-12 or beyond at this time.

With the WIA funds previously described, the University plans to do the following over the next three years:

UC Los Angeles. Federal WIA funds are expected to help temporarily support a cohort of UCLA nursing students at the master's and PhD levels (proposed 69 students in total).

UC Irvine. The Irvine campus is planning new and expanded graduate programs at the master's (MS) and doctoral (PhD) levels, with initial implementation that began with the master's program. Federal WIA

funds are expected to help temporarily support a cohort of UCI master's and PhD students (proposed 50 in total).

UC Davis. UCD accepted its inaugural class of master's and doctoral students at the Betty Irene Moore School of Nursing in Fall 2010. The Gordon and Betty Moore Foundation's vision for the School of Nursing was as a public-private partnership between the Foundation and the State in which both would provide funding for the new school. While federal WIA funds are expected to help temporarily support a cohort of UCD master's and PhD students (proposed 93 in total), State support for the Betty Irene Moore School of Nursing is necessary to retain the \$100 million grant from the Foundation in the future.

UC San Francisco. Federal WIA funds are expected to help temporarily support a cohort of master's and PhD students (proposed 130 in total).

III. ADDITIONAL BACKGROUND INFORMATION

The need for continued expansion of nursing programs is discussed below, followed by a more detailed description of the nursing programs UC currently operates.

California's Nursing Crisis: Virtually all Americans will require nursing care at some time in their lives. Whether this care involved maintenance of health, episodic care of a highly technical or less complex nature, care for a chronic condition or illness, or long-term supportive care, it is important to ensure that appropriate nursing care will be available. Therefore, continuing reports of a nursing shortage raise concerns that must be addressed in California and nationwide.

Notwithstanding recent efforts by the Governor's Nurse Education Initiative to increase the state's capacity to train nurses, California remains as one of the states with the lowest number of employed nurses per capita (589 vs. the U.S. average of 825 nurses per 100,000). Causes of the nursing shortage include rapid population growth (especially of those over age 65), an aging nursing workforce (national average of nurses is 47 years, and nearly 45% of RNs are over age 50), increasing mean age of nursing faculty nearing retirement, and limited nursing school enrollment capacity and insufficient funding for education. Current nurse staffing ratios for California hospitals and national accreditation standards limiting the number of hours medical residents can work have created further demand.

In January 2007, UC completed a multi-year health sciences planning effort, resulting in the report "*A Compelling Case for Growth: Special Report of the Advisory Council on Future Growth in the Health Professions.*"

In the area of nursing, the Council recommended "substantial enrollment growth, with a focus on graduate education in nursing and the need to train increased numbers of future nursing school faculty." The Council also recommended that new programs at the undergraduate level be developed to increase educational opportunities for undergraduates and to help build the pool of students who will go on to graduate study, stating "...[t]his should include growth in existing nursing schools and programs and creation of new ones at new locations."

The Council called for development of new educational models involving interdisciplinary training and team-based approaches to patient care; and redoubled efforts to significantly increase the diversity of all UC health professions faculty and students, with stable funding provided to support best practices and model programs. The Council also encouraged innovative approaches to teaching, including telemedicine, distance learning, and use of new technologies.

UC Nursing Programs: UC currently operates three Schools of Nursing (UCLA, UCSF, and UCD), and a Program in Nursing Science (UCI). Until Fall 2006, UCLA and UCSF offered only graduate nursing education, with the exception of a small 3rd and 4th year baccalaureate program offered at UCLA for students who are already licensed as a Registered Nurse. The graduate programs play a critical role in preparing advance practice nurses and future faculty. Faculty shortages in nursing exist statewide and are a major known barrier to increasing enrollments at UC, the California State University and California Community College campuses.

Overview of UC's Nursing Schools and Programs

Campus	Type	Year established	Degrees offered
UC San Francisco	School of Nursing	1907	MS, PhD
UC Los Angeles	School of Nursing	1949	BS, MSN, PhD
UC Irvine	Nursing Science Program*	2005	BS, [MS, PhD]**
UC Davis	School of Nursing	2009	[BSN, MSN, PhD]**

* UC Irvine plans to seek School of Nursing status

** Anticipated degree offerings; First cohort of students have not yet graduated

A. Baccalaureate Degree Programs

UC currently offers two baccalaureate nursing programs – one at UC Irvine (launched Fall 2006) and the other at UCLA (re-established in Fall 2006). College-bound high school graduates interested in nursing, but strongly committed to a UC undergraduate education, once again have the opportunity to do both. The BS programs at both campuses are four year programs. These programs continue to draw strong interest from undergraduates with highly competitive applicant pools.

UC Irvine. The Baccalaureate in Nursing Science offers talented and highly motivated undergraduates the opportunity to enter the healthcare environment with an education founded upon the theory and practice of nursing. Completion of the program's curriculum will lead to a Bachelor of Science (BS) degree in Nursing Science, a key asset for today's nurses, who must provide care to a diverse group of patients through evidence-based practice. Graduates of the Program in Nursing Science are prepared to serve as generalists in professional nursing practice and to collaborate with other healthcare providers in clinics, hospitals, and community health settings. The undergraduate program prepares students for success in academia as well; graduates are poised to attain advanced degrees in Nursing Science and to significantly contribute to the field through original research.

UC Los Angeles. The Nursing prelicensure program for undergraduate study leading to the Bachelor of Science (BS) degree in Nursing was re-established in Fall 2006. The traditional BS program is designed to prepare students for a career in nursing and focuses on managing both individuals and population-based cohorts within an acute care hospital or medical center. Conceptually, the curriculum has been developed according to the principles of primary, secondary, and tertiary prevention; moving from a systems, population-based approach to a cohort-based or unit-based perspective, and culminating with an intense focus on the individual-level of care. Graduates of the program will be well-prepared to deal with the demands of the present day high acuity patient populations and sophisticated technological environments. The program provides a BS degree with a major in Nursing and eligibility to take the National Council Licensing Examination (NCLEX) to be certified as a registered nurse (RN) after completion of the program.

B. Entry-Level Clinical and Entry-Level Master's Degree Programs in Nursing

UC offers two master's entry nursing programs: the Master's Entry Clinical Nurse Program (MECN) at UCLA, and the Master's Entry Program in Nursing (MEPN) program at UCSF. The two programs differ in curriculum, length of program, fee structure and objectives, but both are master's level professional nursing programs in which the students enter without having a baccalaureate degree in nursing or having completed the requirements for RN certification.

UC Los Angeles Master's Entry Clinical Nurse Program – MECN. The School of Nursing at UCLA offers an entry-level master's degree program, called the Master's Entry Clinical Nurse Program (MECN). The MECN is a two-year program that enrolled its first students in 2006, in which students enter without an undergraduate degree in nursing and earn both a master's degree and satisfy the requirements for RN licensing concurrently. The students are prepared for careers as bedside nurses with additional skills in managing a unit in a hospital (e.g., having the ability to deal with administrative and cost issues), as well as more skills in using, and helping to conduct, research than RNs who have not had graduate level instruction. Students in the MECN program pay the same tuition and fees as those paid by other nursing master's students.

The MECN program assumes that students have completed a comprehensive undergraduate curriculum that will have satisfied some of the BSN licensing requirements. Prerequisites for the program include statistics, anatomy and physiology, as well as chemistry, epidemiology, psychology, communications, and microbiology. Other RN licensure requirements are completed as part of the two-year intensive master's curriculum.

UC San Francisco Master's Entry Program in Nursing – MEPN. Students in UCSF's 3-year MEPN enter with a BS or BA degree in any field other than nursing. In the initial 12 months of the program, students complete coursework to satisfy the requirements for RN licensure, and then move into the two-year Master's of Science in Nursing (MS) program. Graduates of the program graduate as "advanced practice nurses" and are prepared for one of three advanced practice roles: nurse practitioner, nurse midwife, or clinical nurse specialist. As such, they are prepared to work independently (although often in close collaboration with physicians) in both primary and specialty health care.

The intensive initial segment of the MEPN program is self-supporting, that is, supported by a student fee for the 12-month period (fees for students who began in June 2010 were approximately \$34,000 for the first year). During this self-supporting year, the MEPN students are not included as part of State-funded enrollments because no General Fund support is provided for this initial year. After the first year, however, the students enter the MS program and are included in the State reportable enrollments and do receive State support at the same level as other graduate nursing enrollments. During the MS program years, these students pay the same tuition and fees as other nursing master's students.

C. Master of Science in Nursing Programs - Traditional

UC Los Angeles. The UCLA Master of Science in Nursing (MSN) program is a two-year course of graduate study that prepares advanced practice nurse administrators, nurse practitioners and clinical nurse specialists. Students in the MSN program contribute to improving nursing care through research, which includes analysis, articulation, and documentation of the nursing process. The curriculum is designed for students to obtain theoretical and practical knowledge of the foundations for specialized practice, as well as an opportunity to implement that knowledge through advanced clinical practice. Each area of specialization has requirements over and above the minimum core requirements for the degree.

UC San Francisco. The UCSF Master of Science (MS) program is a two-year course of graduate study that prepares leaders in the roles of nurse practitioner, clinical nurse specialist, nurse-midwife, administrator, teacher, and consultant. Most applicants applying to this program are experienced registered nurses who have successfully completed a bachelor's degree. Upon graduation, all have a base of knowledge in a specific area of nursing, can participate knowledgeably in research activity and application, and are capable of contributing to the formulation of theory and to the application of theory to nursing practice. The Master of Science program is ordinarily a two-year program; the vast majority of students are on full-time status at the university (although many undertake part-time paid work concurrently with their study schedule). Each student must select an area of specialization, with opportunities in a number of fields ranging from midwifery to critical care, and health policy to family nurse practitioner training. For many of these specialty areas, the UCSF School of Nursing is acknowledged to be the leading, or the only, nursing school for that particular specialization area at the master's level.

UC Irvine. The UCI Master of Science (MS) in nursing program is a two-year course of graduate study that prepares nurse practitioners. Students select an area of specialization – either the Family Nurse Practitioner (FNP) track or the Adult Geriatric Nurse Practitioner Track (A/GNP). Graduates of the NP tracks will be eligible for certification by the California Board of Registered Nursing. The FNP Program is designed to prepare nurses to deliver primary health care to families in a variety of settings. NPs take health histories and provide complete physical examinations, diagnose and treat many common acute and chronic problems, interpret laboratory results and X-rays, prescribe and manage medications and other therapies, provide health teaching and supportive counseling with an emphasis on prevention of illness and health maintenance, and refer patients to other health professions as needed.

UC Davis. The new UCD Nursing Science and Health-Care Leadership Master of Science (MS) program is a full-time, professional degree program that prepares graduates for health-care leadership roles in a variety of organizations and as nurse faculty at the community college level. The program is ideal for students with experience

or interest in transforming health care through nursing education and research, and those who want to focus on important societal health issues through the work of advancing health and improving the systems that provide health services. It is expected that graduates will exercise leadership through scientific thinking, responsibility, initiative, cultural inclusiveness, knowledge of organizations and system change, teamwork, and a commitment to healthy communities. Required courses for the master's degree program include a combination of core courses and electives. Six graduate-level core courses – Health Status and Care Systems, Implementation Science, Leadership in Health Care, Quantitative Skills for Change, Community Connections and an Informatics course – as well as the Master's Degree Seminar are required. Students work with their advisors to select electives appropriate to their areas of interest. A minimum of 31 quarter units of upper-division and graduate courses and a thesis are required for graduation. The first MS graduates are expected in Spring 2012.

D. Doctor of Philosophy Programs

UC Los Angeles. The UCLA Doctor of Philosophy (PhD) program is research-oriented with a focus on clinical nursing research and designed to provide the theoretical and scientific knowledge necessary for scholarly pursuit in nursing. Students will show competence in an appropriate cognate area relevant to their major area of study by completing theory courses in nursing and related disciplines. The purpose of the PhD program is to educate scholars who, through the conduct of original research and the generation of theory, will build the scientific knowledge base for the advancement of nursing practice, research and health care policy. This research focuses on the individual, family, community, and organizational systems within the context of cultural diversity and across the life span to optimize health outcomes. The program emphasizes specific areas of study in which nursing makes a significant contribution towards health. These areas are defined by the research expertise of faculty in the context of the interdisciplinary resources available at the academic and health sciences campus and the local, national and international community.

UC San Francisco. The UCSF Doctor of Philosophy (PhD) in Nursing program prepares scientists to conduct research in nursing and to contribute to the body of knowledge in nursing. Graduates of this program focus their careers on generating the knowledge base of the nursing discipline through positions as academic or clinical researchers. The curriculum is designed to develop habits of scholarly thinking. The initial segment of the curriculum provides coursework in the areas of research, nursing science and theory development. The emphasis in the middle segment expands to include research residencies, cognates, and independent studies that provide a basis for the student's projected dissertation focus and the subsequent final program of research. The final segment of the program, preceded by the qualifying examination and advancement to candidacy, entails development of a dissertation research proposal, data collection and analysis, and the writing of the dissertation. The dissertation is a work of independent research that makes an original contribution to knowledge in nursing. A key element of the program is faculty consultation and advising. The program entails approximately four years of academic work.

Additionally, the Department of Social and Behavioral Sciences in the UCSF School of Nursing offers a doctoral program which leads to the PhD in Sociology. The substantive focus of the program lies in the sociology of health, illness, biomedicine and health care systems. Four areas of specialty concentrations are available: 1) aging, chronic illness, and disability; 2) health policy (including health organizations and economics); 3) science, technology, and medicine studies; and 4) race, class, gender, and health. Additional areas of study include HIV/AIDS, women's health, health professions and occupations, and violence as a health issue, among others. Both qualitative research and analysis and quantitative methods are emphasized, along with social theory. To qualify for candidacy for the doctoral degree, students must satisfactorily complete qualifying examinations in social theory and in sociology of health and illness at the end of the first and second years. Additionally, the student must prepare a scholarly paper on a relevant problem leading to the dissertation, which usually addresses selected specialty areas. The dissertation is expected to be based on original research.

UC Davis. The UCD Doctor of Philosophy (PhD) in Nursing Science and Health-Care Leadership is a four year academic program that prepares graduates as leaders in health care, health policy and education/research at the university level. The program seeks students with experience and/or interest to carry out the research and leadership to transform health care through nursing education and research. Ideal students want to focus on important societal health issues through the work of advancing health and improving the systems that provide health services. Graduates from the doctoral program will be prime candidates for formal leadership positions. It is expected that graduates will exercise leadership through scientific approaches, vision, initiative, cultural inclusiveness, teamwork,

and a commitment to assuring health care is highly effective, compassionate and accessible. Required courses for the doctoral degree program include five graduate-level core courses – Health Status and Care Systems, Implementation Science, Leadership in Health Care, Research Design in Nursing and Health Care, and an Informatics course – as well as the Doctoral Seminar. A series of courses in research methods is also required. In addition, students work with their advisors to select electives appropriate to their areas of interest, and a doctoral dissertation is required. The first graduates from UCD’s doctoral program are expected in Spring 2014.

Contact information:

UCOP Budget and Capital Resources
1111 Franklin Street, 6th Flr.
Oakland, CA 94607-5220
Office website: <http://budget.ucop.edu>
Report website: <http://budget.ucop.edu/legreports/1011/legreq.html>