

Appendix SBU-4

School of Professional Development

SPD's credit and degree programs are developed specifically in response to local, regional and state needs. The school offers the MAT in five certification areas (English, Foreign languages, Math, Science and Social Studies). Post masters certificates are awarded in School Administration for future principals and superintendents. SPD also offers the Master of Professional Studies in Human Resource Management. Advanced Graduate Certificates are offered in Waste Management, Coaching, Environmental Occupational Health & Safety, Coaching and in a number of engineering related areas. Over 3,000 adult students enroll in these programs per semester. Future plans include developing additional MAT degrees, enhancing SPD's online program to include further degrees in addition to the Master of Arts in Liberal Studies. SPD runs programs in cooperation with both the Suffolk and Nassau Libraries. Programs with area school districts and Teacher Centers are located in more than 30 locations.

Non-credit programs in Information Technology Operations and Certification are in direct response to area business needs. They are either open enrollment contracted with agencies and organizations such as Mather Hospital & the New York State Professional Employees Federation. In cooperation with the NY State Department of Motor Vehicles (DMV) SPD delivers the Driver Rehabilitation Program, in both English & Spanish, to over 3,000 enrollees per year. The Center for Education on Substance Abuse (CESA) offers both credit and non-credit activities for alcohol and substance abuse professionals. Future plans include a Road Rage Program, also with the NYS/DMV. The Round Table, SPD's community outreach program for retired and semi-retired adults enrolls over 600 members, making it the largest senior program of this type on Long Island.

Office of the VP for Economic Development

Programs include credit and non-credit offerings geared specifically to the region. Content areas are in Technology & Manufacturing Management, Software Engineering, CEO Entrepreneurship, Metrics, Calibration and related areas for emerging and existing businesses. The bureau has contracts with the NY State Department of Labor that range from literacy through advanced software and management training.

The office is active with many regional organizations that promote the economic growth of Long Island. These include the Long Island Life Sciences Industry (LILSI), the Aerospace and Defense Association (ADDAPT), the Long Island Software Association (LISA), the Corporate Training Center for Emerging Technologies, and Suffolk Community College. The Career Mapping project identifies issues pertaining to an aging workforce with an emphasis on transferable skill development.

Small Business Development Center (SBDC)

Stony Brook's SBDC runs workshops for local businesses year round, with programs taking place weekly. Some of the topics include Business Basics, Bookkeeping and Accounting for Small Businesses, Writing a Business Plan, Financing Options,

Maintaining a Drug Free Workplace, Effective Marketing and Introduction to Websites. Programs are offered on the Stony Brook campus as well as off campus.

College of Engineering and Applied Sciences (CEAS)

Although most of the College of Engineering's curricula have a direct regional impact and are developed with relevance to Long Island and NY State needs, of special significance are the following which address Professional Continuing Education requirements. They are the Masters in Optoelectromechanical Systems Engineering (Symbol Technologies), Masters in System Engineering (Northrop Grumman).

PEP/Center for Excellence and Innovation in Education (CEIE)

The CEIE is actively involved in a number of well attended outreach activities. These include Camp Sea Wolf for Environmental Education, the annual Celebration of Technology in Education, the Advanced Placement History Conference, Certamen, "A Latin Quiz Bowl," the Staller Center Educational Outreach Program, and Project Java sponsored in cooperation with Stony Brook's Center for High Pressure Research.

PEP/Biology & Cell Biology

Current and planned programs include the Howard Hughes High and Middle Schools Scholar Programs, BioPREP for underrepresented community college students, Science Exploration Camp, and the Biotechnology Summer Camp. Nine Teacher workshops cover aspects of chemistry, earth science, physics and biology. Two examples are Differentiated Instruction in the Biology Classroom and Inquiry-Based Science Concepts for grades 4 -6.

Marine Sciences Research Center (MSRC)

As the only state-funded research organization in the marine sciences, the Marine Sciences Research Center fulfills an important public service mission focusing on methods for improving our stewardship and management of marine resources. Through its various institutes, the MSRC provides expertise and advice to many state and federal agencies, private industry, and plays a limited role in public education. These institutes include the Marine Animal Disease Laboratory, the Long Island Groundwater Institute, the Living Marine Resources Institute, the Waste Reduction and Management Institute, and the Institute for Terrestrial and Planetary Atmospheres. The MSRC also hosts the "New York Ocean Sciences Bowl" for NYC high school students. Some of the organizations with which the MSRC collaborates include the Nature Conservancy, the National Park Service, and the local Ward Melville Heritage Organization.

College of Business

In response to the needs of the regional business community, the newly created College of Business plans to offer an MBA degree program and various Executive Education programs. The College will reach out to the regional business community in a variety of ways – developing programs for entrepreneurial as well as established organizations. These programs will be offered at convenient times for working students. The College will work closely with the business community to provide educational programs for managers in both for the profit and not for profit sector.

Currently the College's graduate students assist businesses by working in teams on projects as part of a required six-credit course in our M.S. and MBA degrees. These projects give students hands-on experience working in a company but also provide businesses the expertise of our faculty in resolving key business problems within their companies.

The Health Sciences Center (HSC)

The individual colleges and divisions of SBU's HSC are inextricably tied to fulfilling regional, state and local needs through present and anticipated curricula. They also provide specialized professional continuing education to practitioners. Because the amount of material is so large what follows is a highly selective summary suggesting the entire range of programs and initiatives.

The School of Medicine (SOM) is the only medical school in Nassau and Suffolk Counties. The population of the two counties is close to 3 million people. The physician population is over 10,200. These physicians are a primary group for the medical school to address in Continuing Medical Education (CME) in order to spare these physicians excessive travel and loss of time from practice. The School of Medicine also contributes to improvement of the quality of health care nationally through its educational leadership and provision of CME activities for physicians throughout the country.

Another important mission of the SOM is to increase the number of doctors in NY State by giving high priority to New York residents. There is also a special initiative for minority students. The SOM has also launched an ambitious Continuing Medical Education program designed to optimize patient care and physician competency. These programs are delivered through jointly sponsored conferences and symposia with professional and regional associations.

The School of Health Technology Management (SHTM) created the Health Science major to respond to New York State's healthcare industry workforce needs. The Health Science major is committed to researching the evolving trends in the healthcare industry and the corresponding shifts in the State's healthcare workforce. The major is structured in such a way that ongoing curricula change in concentrations is possible to respond to the healthcare industry's evolution. Some of the concentrations include Healthcare Management, Medical Billing and Coding and Pharmacy Technician. There are also collaborative programs offered in conjunction with departments within SBU's Hospital such as Radiation Therapy and Anesthesiology Technology. Professional Continuing Education is a vital part of the SHTM's commitment to its graduates and the larger practitioner community and incorporates. Examples include initiatives for Physician Assistants and in Respiratory Care.

SBU's Physician Assistant (PA) program has a special responsibility to provide cutting-edge education for the Pass in our region. The new master's level PA curriculum at Stony Brook will include coursework specifically targeted at emerging areas in healthcare, such as preventive medicine, population health and human genomics (as

previously noted), as well as more advanced concepts/skills concerning issues of medical ethics and the use of state-of-the-art technology for diagnosis and treatment. The proposed program will facilitate Stony Brook's goal of graduating highly-qualified, compassionate physician assistants capable of serving in key leadership positions at any health care institution on Long Island and the region, many of which provide care to those who are traditionally medically underserved.

The School of Dental Medicine (SDM) offers programs that both train and provide dental care to the disabled and aging. Current degree curricula include General Dentistry, Endodontics, Orthodontics, Aerodontics and the Ph.D. in Oral Biology. There is a wide range of continuing education in general dentistry and in the specialized areas.

As one of the five members of the NY State Academic Dental the SDM advocates for improved dental care within NY State and nationally.

The School of Social Welfare (SSW) has initiated courses in Forensics at Stony Brook Manhattan that respond to the needs of social work and allied professionals who deal with the court system related to domestic violence, child abuse, and elder abuse. In cooperation with the Traditional Chinese Medicine Foundation to develop a certificate program in traditional health and wellness approaches, including spirituality, exercise, massage and acupuncture. Partnerships also exist with the Black Veterans for Social Justice, the Central Islip School District, and the Local 1199 Union. In the case of Local 1199, the SSW prepares union members to take the Social Work Certification Examination.

The SSW designed, administered, and analyzed a random digit dialing Telephone Survey of Unpaid Family Caregivers of the Frail & Elderly in NYS and Suffolk County to establish baseline data on the various dimensions of caregiving with special emphasis on the incidence and unmet needs of caregivers. This initiative was funded by the NYS Legislature and Suffolk County.

The School of Nursing (SON)

- a. Increase the enrollment of undergraduate basic baccalaureate program specifically in the "One Year Accelerated Program." This program is designed for students with minimum of Bachelor's degree.
- b. Offer courses and clinical practicum during evenings and weekends.
- c. Recruit students for advanced degree through Nassau-Suffolk Nursing Coordinating Council through collective bargaining units (i.e., PEF, Local #1199, CSEA), and various health care agencies/institutions.
- d. Do outreach by teaching role of healthcare provider for K-12 students, offer workshops for middle and high school, and boy and girl scouts. Community Service at homeless shelters, senior citizens center, religious institutions.
- e. Offer annual Continuing Education Updates for Nurse Practitioners and Registered Nurses primarily during the summer.
- f. Certificate programs in Surgical Technology, professional development for non-degree population.

- g. Geriatric Project for Registered Nurses who are employed in Nursing Homes caring for the elderly to meet the need of growing population of older adults especially in Southern New York Region.
- h. Distance Education Programs: Graduate-International continued
Undergraduate RN's to BS-National offerings expanded.
- i. Academic Programs:
Master of Science in Nursing Education
Master of Science in Nursing Administration

Programs Developed in response to Registered Nurses

- Who are not interested in becoming nurse practitioners
- Who desire mid level graduate program before doctoral studies
- For whom the ultimate goal is to become faculty (there is a shortage in nursing faculty as well).
- For whom administration/career development is goal.

There is an aging population of Nursing Faculty and Nursing Administrators that will need to be replaced locally/regionally/state and nationally same as Registered Nurses.

Taken from The Center for Health Workforce Studies report, February 2003, documenting the nursing shortage: The Center for Health Workforce Studies at the School of Public Health, University at Albany (the Center) annually surveys RN education programs in the state. There are 106 nursing programs in New York State. Registered Nurses that graduated from associate degree or diploma programs are increasingly continuing their education. This will of course, increase the population in many baccalaureate programs, as the expectation is that all current and future RN's will have a bachelor's degree within the next ten years as the entry level into professional nursing practice. With the projected increase in the number of RN graduations in 2004, graduations in New York State will still be nearly 11% lower than the number of graduations over the past five years.