Explore Majors that Promote Health and Wellness
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21st Century Challenges
Population is Aging

4th
New York’s rank among all states for the oldest population

1.8 Million
New York residents who will be over the age of 75 by 2030

51
New York counties where 25% of the population will be over the age of 60 by 2025
## Healthcare Providers are Unevenly Distributed

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.8 Million</td>
<td>New York residents who live in primary care professional shortage areas</td>
</tr>
<tr>
<td>2.7 Million</td>
<td>New York residents who live in dental care professional shortage areas</td>
</tr>
<tr>
<td>1.4 Million</td>
<td>New York residents who live in mental health professional shortage areas</td>
</tr>
</tbody>
</table>
Result: Demand for Health Care Workers is Increasing

11.6 Million total
New health care workers needed between 2016 - 2026

37,000 each year
New physicians, nurse practitioners, and physician assistants needed between 2016 - 2026
Projected Annual Need for New Workers Among Health Care Occupations With Greatest Growth, 2016-2026

- Personal Care Aides: 191.0 (New jobs)
- Registered Nurses: 90.9 (New jobs)
- Nursing Assistants: 96.7 (New jobs)
- Home Health Aides: 68.3 (New jobs)
- Medical Assistants: 31.9 (New jobs)
- Licensed Practical Nurses: 27.1 (New jobs)
- Dental Assistants: 18.6 (New jobs)
- Pharmacy Technicians: 13.8 (New jobs)
- Medical/Health Service...: 10.5 (New jobs)
- Healthcare Social Workers: 6.9 (New jobs)

Source: US Department of Labor, Bureau of Labor Statistics. Employment Projections program: Table 1.10 Occupational separations and openings, projected 2016-2026 (Numbers in thousands)
Projected Annual Need for Physicians, Nurse Practitioners, and Physician Assistants, 2016 - 2026

Solutions
Explore Majors that Promote Health and Wellness

suny.edu/majors
<table>
<thead>
<tr>
<th>Agriculture and Conservation</th>
<th>Architecture and Environmental Design</th>
<th>Business</th>
<th>Communications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computing and Mathematics</td>
<td>Education</td>
<td>Engineering and Engineering Technology</td>
<td>Ethnic and Area Studies</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td>Health and Wellness</td>
<td>Hospitality and Culinary Arts</td>
<td>Humanities and Social Sciences</td>
</tr>
<tr>
<td>Interdisciplinary Studies</td>
<td>Law, Justice, and Public Service</td>
<td>Physical Sciences</td>
<td>Visual and Performing Arts</td>
</tr>
</tbody>
</table>

Explore Majors that Promote Health and Wellness
Research Opportunities

Freshman Research Immersion Programs

Summer Undergraduate Research Programs

Experience Cutting Edge Research in a Biomedical Science Lab!

SUMMER UNDERGRADUATE RESEARCH FELLOWSHIP PROGRAM

JUNE 3 - AUGUST 9, 2019

Opportunity includes stipend and free housing.

Dr. Michael Cosgrove, PhD, Director
College of Graduate Studies
SUNY Upstate Medical University
Syracuse, New York

Explore Majors that Promote Health and Wellness
• 130+ Undergraduate Majors
• 20 Certificate Options
• Joint Admission: 1+1, 3+3, 3+4, 4+2, 4+3
Professional Programs in:

- Dentistry
- Medicine
- Nurse Practitioner
- Occupational Therapy
- Optometry
- Osteopathic Medicine
- Pharmacy
- Physical Therapy
- Physician Assistant
- Veterinary Medicine
Explore Majors that Promote Health and Wellness

5

Academic Medical Centers and Hospitals

University at Buffalo

College of Optometry

Stony Brook University

Downstate Medical Center

Upstate Medical University
Graduate Program Search

How to Apply? This search will help you find graduate programs available at SUNY graduate schools. Those interested in a State University Graduate program must apply directly to the campus of their choice. Each result from this search provides a direct link to the webpage of the SUNY campus offering the program. Those webpages provide you with detailed program descriptions, application information and more. Undergraduate candidates should use the Undergraduate Program Search.

For details about how to use our Program Search, view the instructions.

SUNY Campus:  
- All
- Albany, University at
- Alfred University, NYS College of Ceramics at
- Binghamton University
- Brockport, State University College at
- Buffalo State College

Award Type:  
- All

Program Title:  
Enter Program Title

[Search]  [Clear]

Locate a SUNY Graduate School
Explore Majors that Promote Health and Wellness

Pathways

Degree Ladders

Health Information Technology AAS
Medical Coding or Medical Billing Certificate
Pathways

Health Sciences Transfer Paths

- Biology
- Chemistry
- Dietetics
- Health Education
- Nursing
- Nutrition Science
- Social Work

Explore Majors that Promote Health and Wellness
SUNY transfer paths outline the knowledge and skills that are essential for students to complete during their first two years of study for a major in a given discipline. The coursework described below will meet degree requirements at all SUNY campuses offering majors in the above discipline. If you complete this coursework successfully, you will be well-positioned to finish your degree with an additional two years of study at your SUNY transfer college.

Use this transfer path to discover both courses related to your major and general education requirements that will prepare you for transfer. Click on each course to view a course description. Then, to map your first two years of courses, visit Planning Your Coursework.

**Lower-Division Major Requirements**

- **Required Introductory Courses:**
  - General Biology I (with lab)*
  - General Biology II (with lab)*
  - General Chemistry I (with lab)
  - General Chemistry II (with lab)
  - Math course(s) leading to a placement of 'Ready for Calculus'

- **Intermediate Courses:** In consultation with your advisor, choose a minimum of 5 courses from the list below. The selections should be made based on both your interests and the specific requirements of the biology program into which you want to transfer.

- **Cognate Courses:**
  - Organic Chemistry I (with lab), Organic Chemistry II (with lab) OR
  - Analytical Physics I (with lab), Analytical Physics II (with lab) (for BS degree track) OR
  - General Physics I (with lab), General Physics II (with lab) (for BA degree track)
  - Statistics
  - Calculus I
  - Calculus II

- **Biology Courses:**
  - Genetics (with lab)
  - Cell Biology (with lab)
## Online Options

### Online Degrees

#### Search for a Degree

### All Degree Levels

#### Health Sciences

### Showing 113 Online Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Delivery Mode</th>
<th>Degree Type</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Addictions Counseling</td>
<td>75% Online</td>
<td>Associate Of Science</td>
<td>62</td>
</tr>
<tr>
<td>Monroe Community College</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adult-Gerontology Primary Care Nurse Practitioner</td>
<td>100% Online</td>
<td>Master Of Science</td>
<td>45</td>
</tr>
<tr>
<td>Stony Brook University</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aging Studies</td>
<td>50% Online</td>
<td>Advanced Certificate</td>
<td>15</td>
</tr>
<tr>
<td>State University College at Brockport</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alcohol and Substance Abuse Studies</td>
<td>75% Online</td>
<td>Associate Of Science</td>
<td>62</td>
</tr>
<tr>
<td>Genesee Community College</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[open.suny.edu](open.suny.edu)

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Nutrition Science Program Description

The program is for students interested in nutrition, food, disease prevention, government food policy, sports/fitness, and the relationship of diet to health. Pre-professional degree (additional schooling is required).

- Physician
- Chiropractor
- Dentist
- Pharmacist
- Physician Assistant
- Physical Therapist
- Occupational Therapist
Nutrition Science

- Nutrition Specialist
  - Median $59,000
- Corporate Wellness Consultant
  - Median $55,000
- Nutrition Educator
  - Median $41,000
- Food Technologist
  - Median $63,000
- Public Health Nutritionist
  - Median $50,000
- Media/Nutrition Communications/writer
  - Median $39,000
- Government/Public Health Nutritionist
  - Median $55,000

Reach Higher.

Farmingdale State College
State University of New York
Health Promotion & Wellness Program

Description

• The program addresses the physical, mental, and Spiritual health needs of the young, the corporate environment, the baby-boomer population, and the millions of insured patients in America’s health-care system.
Corporate Health Promotion

- Workplace health assessment
- Planning a program
- Implementing a program
- Evaluating a program’s outcomes
Well-known Insurance firms with a reputation for hiring Health Coaches include Humana, Aetna, Omaha Health, Healthways, United Health Group, and Cigna Corporation - with a median salary of $62K.
Graduating Pharmacy Leaders

- Founded in 1886 as the first public School of Pharmacy and Pharmaceutical Sciences in New York
- Top-ranked Pharmacy program – #22 nationally, #1 in New York State¹
- World-renowned Pharmaceutical Sciences program
- Small community, large research university resources
- Academic Health Center – Interprofessional education
- Innovative curriculum, optional special programs, micro-credentials

¹U.S. News & World Report Best Grad Schools Rankings – Pharmacy
Pharmacy
Dispense drugs and counsel patients

Work in
- Pharmacies, hospitals, healthcare facilities, research labs, pharmaceutical industry, government, colleges and universities

Interact with
- Patients and healthcare professionals

Skilled in
- Communication, math, sciences, patient care, ethics and empathy

Pharmaceutical Sciences
Drug discovery and development

Work in
- The pharmaceutical industry, research labs, colleges and universities

Interact with
- Research scientists, industrial partners

Skilled in
- Math, science, lab techniques and problem solving

Pharmacy Degrees
- PharmD
- PharmD/MBA
- PharmD/MPH
- PharmD/MS
- PharmD/PhD
- PharmD/JD
- BA/PharmD
- BS/PharmD

Pharmaceutical Sciences Degrees
- BS
- BS/MS
- MS
- PhD
PharmD Admission

Early Assurance
- Minimum science/math cumulative GPA = 3.3
- Minimum course grade = C
- Interview = freshman year
- Forms and fee = sophomore year

PharmCAS
- 2+4 Early Community College Partnerships = 23
- 3+4 Early College Partnerships = 3 SUNY colleges
- Competitive science/math GPA = 3.0
- Minimum prerequisite course grade = C-
- PCAT composite score = 60th percentile
- Supplemental materials
  - Two professional/academic letters of reference
  - Experience
  - Personal Essay
  - Interview
PharmD Career Options

- Academia
- Ambulatory Care
- Government Agencies
- Hospice & Home Care
- Long-term Care
- Uniformed (Public Health) Service
- Independent Ownership
- Pharmaceutical Industry
- Medical & Scientific Publishing
- Law, Regulatory Affairs, Public Policy
- Consulting Pharmacy
- Hospital & Institutional Practice
- Trade & Professional Associations

Pharmacy Career Information, pharmacyforme.org/career-pathways
Stony Brook University Hospital and Medical Center

- Stony Brook University Hospital is right on campus!
- Top 50 Teaching and Research Medical Center

- Level 1 Trauma Center with 597 beds and more than 5,500 employees
- Largest Hospital in Suffolk County. Premier academic medical center on Long Island
- Provide treatment for over 31,000 inpatients and provide care for 230,000 outpatient visits
- School of Dental Medicine on campus
Undergraduate Programs Offerings

- School of Health Technology and Management
- Clinical Lab Science
- Respiratory Science
- Health Sciences
- School of Nursing
- Nursing – B.S
- School of Social Welfare
- Social Work – B. S and M.S.

- Volunteer Opportunities
- Field Placement
- Service Learning
Pre-Professional Advising

Graduate Programs
• Physical Therapy
• Physician Assistant
• Occupational Therapy
• Masters of Athletic Training
Pre-Professional Advising

Various Pre-Professional Tracks

• Pre-Med
• Pre-Dental
• Pre-Vet
• Pre-Health

• Students receive pre-professional advising to help them stay on their chosen track
Medical and Health related Student Organizations & Extracurricular Programs

- Alternative Spring Break Outreach:
- AED Honor Society
- American Red Cross at SB
- Biomedical Engineering Society
- C-CERT: Campus Community Emergency Response Team
- Global Brigades
- Habitat for Humanity
- SBVAC: Stony Brook Volunteer Ambulance Corps
- MAPS: Minority Association of Pre-Medical Students
- Pre-Dental Society
- Pre-Med Society
Academic Counseling & Preparing for Health Majors

• Find a Major that you Love!
• There is **NO** specific major you need to study to apply to Medical School
• Students who have an interest in the health or medical field should be strong in their math and science courses
• Pre-Calculus and Calculus are recommended Math courses
• Participate in Research programs that heighten their knowledge of various medical careers paths and majors
• A strong academic history is more beneficial than extracurricular history. Though students have demonstrated additional involvement, there should be a balance.
Questions?