DPC: DEFINING UNDERGRADUATE BIOMEDICAL MAJORS

The Diversity Program Consortium (DPC) was established with the long term goal to enhance diversity in the biomedical research workforce. To do this, a list of undergraduate majors was compiled to indicate what fields of study would further this goal.

The National Institutes of Health (NIH) and the National Science Foundation (NSF) had previously identified a list of majors to track entry into STEM careers. After ongoing DPC discussions and review of the prior list, the Executive Steering Committee approved an expanded list of undergraduate biomedical majors that correlated to institutional offerings and funding offered through the NIH. The committee co-chairs at the time were Drs. Alison Gammie and Lourdes Echegoyen.

Gammie is the director of the Division of Training, Workforce Development and Diversity at the National Institute of General Medical Sciences, NIH, and the DPC program lead. Echegoyen is the director of both the BUILDing SCHOLARS Center and the Office of Undergraduate Research Initiatives at the University of Texas, El Paso.

The list below was created to determine the scope of the Enhance Diversity Study, also known as the Consortium Wide Evaluation Plan (CWEP).

BIOLOGICAL & LIFE SCIENCES

✓ Anatomy	✓ Microbiology
✓ Animal Biology (zoology)	✓ Microbiology, Immunology, and Virology
✓ Biochemistry/Biophysics	✓ Molecular, Cellular, & Developmental Biology
✓ Biology (general)	✓ Multidisciplinary
✓ Biosciences	✓ Neurobiology/Neuroscience
✓ Ecology & Evolutionary Biology	✓ Other Biological Science
✓ Endocrinology	✓ Pathology
✓ Entomology and parasitology	✓ Pharmacology
✓ Genetics	✓ Physiology
✓ Marine Biology	✓ Zoology

ENGINEERING

✓ Biological/Agricultural Engineering	✓ Computer Science & Electrical Engineering
✓ Biomedical Engineering	✓ Electrical Engineering
✓ Chemical Engineering	✓ Electrical Engineering & Computer Engineering
✓ Chemical, Biochemical, & Environmental Engineering	✓ Engineering & Technology Management
	✓ Mechanical & Aerospace Engineering
✓ Computer Engineering & Computer Science	✓ Mechanical & Materials Engineering

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HEALTH PROFESSIONS

- Anesthesiology
- Biometry & Epidemiology
- Cardiology
- Child & Adolescent Development
- Clinical Medicine, Nec
- Communication Disorders Sciences: Speech & Hearing Sciences
- Dental Science
- Environmental & Occupational Health Engineering
- Family & Consumer Sciences: Dietetics & Food
- Health Care / Services Administration: Heath Science
- Health Education: Fitness Physical Education Sport Psychology
- Health Related
- Health Sciences (e.g. Information Management)
- Hematology
- Kinesiology: Kinesiotherapy Exercise Science
- Medical Technologies/Technicians
- Multidisciplinary
- Neurology
- Nursing
- Obstetrics & Gynecology
- Oncology / Cancer Research
- Opthalmology
- Otorhinolaryngology
- Pediatrics
- Pharmacy / Pharmaceutical Sciences
- Physical Therapy
- Preventative Medicine & Community Health
- Psychiatry
- Public Health / Community Health: Health Communication Community Development
- Pulmonary Disease
- Radiology
- Science Education
- Surgery
- Veterinary Sciences

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PHYSICAL SCIENCES

✓ Atmospheric Sciences	✓ Geography & Environmental Sciences
✓ Biochemical Sciences	✓ Geological or Earth Sciences
✓ Biophysics	✓ Marine Biotechnology
✓ Chemistry & Biochemistry	✓ Medicinal Chemistry
✓ Environmental Sciences	✓ Physics
✓ Geography	✓ Physics & Astronomy

SOCIAL SCIENCES

✓ Anthropology (Cultural & Social)	✓ Psychology, Combined
✓ Clinical Psycholoy	✓ Psychology, Except Clinical
✓ Multidisciplinary: Human Development	✓ Sociology: Women & Gender Studies
✓ Psychology	✓ Sociology / Anthropology

OTHER

✓ Computer Science
✓ Information Systems
✓ Mathematics & Statistics