

Pre-Health Professions, Science Major Certificate

The Pre-Health Professions Certificate assists students in preparing for post-baccalaureate, healthcare professional programs.

The certificate is composed of two separate tracks: a track for majors in the College of Natural Sciences, and a track for majors in other colleges across the university. Students must apply online for admission to the certificate through the university-wide portal for transcript recognized certificates.

These one-hour courses introduce students to the core competencies required as a health care professional, assist the student in discerning the appropriate health professional career, and support the student in completing application to professional school.

Students are encouraged to work closely with the Health Professions Office to select healthcare themes relevant to their professional career goals. Some of the courses may contain prerequisites that are in addition to the coursework for the certificate.

Majors in the College of Natural Sciences must seek the Science Major Track.

Total Hours Required: 20 Requirements

Requirements are listed in the table below. Additional requirements may follow the table, so be sure to read the entire page. Some required courses listed below may also satisfy General Education requirements, including Core Curriculum. Students should also review the University's Undergraduate Minor and Certificate Requirements and Policies.

Code	Title	Hours
Hours chosen from:		2
NSC 107J	The Effective Health Care Professional	
NSC 107K	Thriving in a Collaborative Healthcare Environment	
NSC 107M	Introduction to the Health Professions Action Plan	
Themes		
Hours chosen from the following themes relevant to healthcare:		18
Cultural Awareness:		
AAS 301	Introduction to Asian American Studies	
AAS 310.1	Psychological Perspectives on Asian American Identity	
AFR 301	African American Culture	
AFR 352D	Psychology of the African American Experience	
HIS 365G.10	Twentieth-Century United States Lesbian and Gay History	
LAS 324L.16	Mexican Immigration Cultural History	
MAS 307	Introduction to Mexican American Cultural Studies	
MES 301L	Introduction to the Middle East: Adjustment and Change in Modern Times	
SLH 308K	Perspectives on Deafness	
Health and Anatomy:		
ARH 339R	Art, Art History, and Medicine	
C C 306M	Introduction to Medical and Scientific Terminology	
EDP 350L	Human Sexuality	
or HED 366	Human Sexuality	

or PSY 346K Psychology of Sex	
HED 335	Theories of Substance Use and Abuse
HED 343	Foundations of Epidemiology
HED 352K	Topics in Health Studies
HED 370K	Topics in Health Promotion: Seminar
HED 373	Evaluation and Research Design
KIN 320	Applied Biomechanics of Human Movement
KIN 424K	Applied Human Anatomy
KIN 425K	Physiology of Exercise
KIN 326K	Biomechanical Analysis of Movement
PSY 301	Introduction to Psychology
PSY 308	Biopsychology
PSY 332C	Hormones and Behavior
PSY 341 K.4	Health Psychology
PSY 353K	Psychopharmacology
SLH 306K	Introduction to Speech, Language, and Hearing Sciences
Healthcare Policy:	
CMS 322E	Communication Ethics
GRG 322D	Human Health and the Environment
GRG 334E	Children's Environmental Health
GRG 344K	Global Food, Farming, and Hunger
GRG 357	Medical Geography
HED 378D	Topics in Peer Health Leadership I
HIS 350R.18	Women in Sickness and Health
MAN 334M	Healthcare System Management
N 309	Global Health
N 321	Ethics of Health Care
PBH 317	Introduction to Public Health
PHL 325M	Medicine, Ethics, and Society
SOC 307P	Introduction to the Sociology of Health and Well-Being
SOC 319	Introduction to Social Demography
SOC 321G	Global Health Issues and Health Systems
SOC 336D	Race, Class, and Health
SOC 354K	Sociology of Health and Illness
SOC 369K	Population and Society
URB 332D	Human Health and the Environment
Human and Societal Development:	
CMS 310K	Team-Based Communication
CMS 322E	Communication Ethics
EDP 350E	Introduction to Life Span Development
HDF 304	Family Relationships
HDF 313	Child Development
HDF 335	Adult Development
HDF 342	Development of Psychopathology from Infancy through Adolescence
HDF 343	Human Development in Minority and Immigrant Families
HDF 351	Infant Development and Attachment Relationships
HDF 378K	Topics in Advanced Child and Family Development (Approved topics)
N 310	Communication in Health Care Settings
PSY 301	Introduction to Psychology
PSY 308	Biopsychology
PSY 332C	Hormones and Behavior

PSY 333D	Introduction to Developmental Psychology
PSY 341K.4	Health Psychology
SOC 302	Introduction to the Study of Society
SOC 330C	Death and Dying: Sociological Perspectives
SOC 333K	Sociology of Gender
HED 329K	Child and Adolescent Health
S W 360K.9	Loss and Grief: Individual, Family, and Cultural Perspectives
Nutrition:	
CMS 322E	Communication Ethics
HIS 350R.5	American Cultural History of Alcohol and Drugs
NTR 306	Fundamentals of Nutrition
NTR 312	Introduction to Nutritional Sciences
NTR 315	Nutrition through the Life Cycle
NTR 218	Assessment of Nutritional Status
NTR 321	International Nutrition: The Developing World
NTR 326	Intermediate Nutrition and Metabolism
NTR 331	International Nutrition: Social and Environmental Policies
NTR 332	Community Nutrition
Total Hours	20

Optional: If additional hours are needed to complete the 20 hours for the certificate, a maximum of nine hours chosen from the following may be applied to the science major track. (Only one course from statistics may be applied):

Code	Title	Hours
Biochemistry and Chemistry		
BCH 369	Fundamentals of Biochemistry	
CH 220C	Organic Chemistry Laboratory	
CH 320M	Organic Chemistry I	
CH 320N	Organic Chemistry II	
Biology		
BIO 206L	Introductory Laboratory Experiments in Biology	
BIO 311C	Introductory Biology I	
BIO 311D	Introductory Biology II	
Physics		
PHY 301	Mechanics	
PHY 101L	Laboratory for Physics 301	
PHY 302K	General Physics Technical Course: Mechanics, Heat, and Sound	
PHY 302L	General Physics Technical Course: Electricity and Magnetism, Light, Atomic and Nuclear Physics	
PHY 102M	Laboratory for Physics 302K	
PHY 102N	Laboratory for Physics 302L	
PHY 303K	Engineering Physics I	
PHY 303L	Engineering Physics II	
PHY 103M	Laboratory for Physics 303K	
PHY 103N	Laboratory for Physics 303L	
PHY 316	Electricity and Magnetism	
PHY 116L	Laboratory for Physics 316	
PHY 317K	General Physics I	
PHY 317L	General Physics II	
PHY 117M	Laboratory for Physics 317K	
PHY 117N	Laboratory for Physics 317L	
Statistics		

SDS 301	Elementary Statistical Methods
SDS 302F	Foundations of Data Analysis
SDS 320E	Elements of Statistics

Additional upper-division coursework in biochemistry, biology, and chemistry by approval of the undergraduate certificate advisor

Additional Requirements and Policy

- The certificate consists of a minimum of 20 hours, including nine hours in residence. Each course must be completed with a grade of at least *C*.
- Students must complete two of the three NSC 107J, NSC 107K, or NSC 107M courses managed by the Health Professions Office to receive the certificate. It is recommended that all three NSC 107J/NSC 107K/NSC 107M courses be taken.
- Majors outside of the College of Natural Sciences must seek the Non-Science Major Track.
- The composition of the non-science major track is science coursework necessary for admission to post-baccalaureate, healthcare professional programs.
- Non-science majors may apply to the certificate program upon completion of the following courses with grades of at least *B*–: CH 301 or CH 302, and one of the following: SDS 302F, M 408C, M 408K, M 408N, M 408R, EDP 308, or PSY 317L.
- Upon admission, the ability to progress in the certificate is dependent on completion of the certificate courses with satisfactory grades.