
Health & Pre-Professional Science - Certificate (HPPS.CERT)

The Health & Pre-Professional Science Certificate is designed to introduce students to core scientific and healthcare concepts, terminology, and career pathways within both clinical and laboratory-based environments. This flexible, stackable certificate serves as an ideal starting point for students preparing to enter health-related associate degree programs, transfer to four-year institutions, or pursue short-term credentials for direct workforce entry.

Students may follow one of two distinct but complementary pathways:

- **Pre-Professional Science Track** – Designed for students intending to transfer into bachelor's programs in fields such as pre-medical, pre-veterinary, pre-dental, pharmacy, optometry, physical and occupational therapy, and physician assistant studies. This track fulfills many first-year academic requirements for science majors and provides the foundational coursework needed for successful transfer.
- **Health Science Foundation Track** – Intended for students exploring entry-level healthcare careers or preparing for selective health programs such as Diagnostic Imaging, Respiratory Care, Surgical Technology, and Medical Assisting. This track emphasizes early exposure to healthcare systems, hands-on skills, and foundational general education coursework.
- **Embedded credential options**—such as Phlebotomy Technician, EKG Technician, Emergency Medical Technician-Basic, and Medical First Responder—enable students to earn industry-recognized certifications while advancing toward a degree. The certificate supports both short-term employment and long-term academic mobility, helping students meet selective program prerequisites while building a competitive edge in the healthcare ecosystem.

Minimum credits: 16

Minimum cumulative GPA: 2.0

Minimum grade in all courses: 2.0

Choose from Track A or Track B (16 Credits)

Track A: Pre-Professional Science (Transfer-Focused)

This track is designed for students planning to transfer to a four-year institution to pursue a degree in either as science majors or as pre-professional students. The coursework provides foundational preparation in science and general education and fulfills many first-year academic requirements for transfer into pre-professional programs.

Students must complete a minimum of 16 credits from the following areas:

MATHEMATICS (choose one)

MAT	133	Probability and Statistics
MAT	139	College Algebra
MAT	141	Pre-Calculus

MAT 151 Calculus I **OR** MAT 152 Calculus II

SCIENCE CORE COURSES (choose three-four)

BIO 132 Human Biology
BIO 161 General Biology I
BIO 162 General Biology II
BIO 220 Microbiology
BIO 253 Human Anatomy and Physiology I
BIO 254 Human Anatomy and Physiology II
CEM 131 Fundamentals of Chemistry
CEM 132 Fundamentals of Organic and Biological Chemistry
CEM 141 General Chemistry I
CEM 142 General Chemistry II
CEM 241 Organic Chemistry I
CEM 242 Organic Chemistry II
PHY 231 College Physics I **OR** PHY 251 – Modern University Physics I
PHY 232 College Physics II **OR** PHY 252 Modern University Physics II

PRE-PHYSICIAN ASSISTANT COURSE

PPA 101 Intro to Pre-Physician Assistant

Track B : Health Science Foundation (Applied/Stackable Credential-Focused)

This track is designed for students seeking short-term credentials and foundational exposure to healthcare systems while preparing for entry-level healthcare careers or selective admission to associate degree programs. It emphasizes career exploration, hands-on skills, and the opportunity to earn embedded certifications in high demand allied health roles.

GENERAL EDUCATION (7 – 8 credits)

Choose from the following:

BIO 132 Human Biology
BIO 253 Human Anatomy & Physiology I **AND** BIO 254 – Human Anatomy & Physiology II
COM 250 Intercultural Communications
ENG 131 Writing Experience I
ENG 132 Writing Experience II
HUM 131 Cultural Connections
MAT 130 Quantitative Reasoning or higher
PSY 130 General Psychology **OR** PSY 152 Social Psychology

HEALTH SCIENCE CORE (8 - 9 credits)

Select courses to meet or exceed the 9-credit minimum. Courses with asterisks lead to stackable credentials

BIO 220 Microbiology
CEM 131 Fundamentals of Chemistry
DMS 100 Introduction to Diagnostic Imaging
DMS 104 Introduction to Sonographic Instrumentation
EMS 116 Medical First Responder *

EMS	124	Emergency Medical Technician-Basic *
HOC	110	Advanced First Aid and CPR
HOC	130	Introduction to Health Occupations
HOC	135	EKG Technician *
HOC	145	Phlebotomy Technician *
MOA	112	Medical Law and Ethics
MOA	120	Medical Terminology
NRS	145	Normal/Therapeutic Nutrition
PHL	236	Ethics
PHY	145	General Physics
PPA	101	Intro to Pre-Physician Assistant
RES	101	Introduction to Respiratory Care
SUR	101	Introduction to Surgical Technology

(Courses marked with an asterisk may lead to a stackable credential)