

# HEALTH SCIENCES

Associate in Science Degree | Transfer Degree | Department of Health, Physical Education and Recreation

## Program Description

The AS in Health Sciences creates an academic home for the large number of students interested in the health professions. The program exposes students to a variety of health careers, in addition to nursing, while at the same time providing them with industry-aligned, “stackable” certification and experiential learning opportunities.

### The program has three options:

- Healthcare Careers Preparation, which prepares students interested in pursuing AAS or bachelor’s programs that lead to careers (e.g., nursing) providing healthcare services directly to patients and consumers.
- Health Administration, which prepares students to understand health services and develop their administrative, organizational, and business skills to apply to healthcare.
- Care Coordination, which prepares students to support patients, consumers and others navigating The Healthcare System.

**Please note: We anticipate enrolling students in the AS in Health Sciences starting in the Spring 2024 semester.**

## Learning Outcomes

Upon successful completion of the Health Sciences program requirements, students will be able to:

1. Demonstrate an understanding that personal health and public health are determined by multiple factors, including scientific, medical, behavioral, environmental, cultural, social, political, and economic factors. Apply health concepts to the prevention and treatment of disease and to promote health and wellness.
2. Demonstrate basic proficiency of quantitative, scientific, and administrative skills in the field of health sciences. Assess and interpret health information. Use what is learned through this analysis to help develop solutions to problems and/or to promote further investigation.
3. Explain the fundamental characteristics and functions of the United States health care system and the services and resources available to an individual, family or community to meet the needs of good health. Identify obstacles and opportunities for individuals to obtain health care services.
4. Communicate effectively about health care issues with diverse audiences. Practice as a member of a team. Appreciate human diversity and the implications diversity has on health. Evaluate and describe the health concerns of an individual patient, family, institution, and/or community with sensitivity to the context of the circumstances.

Upon successful completion of the Healthcare Careers Preparation option, students will be able to:

1. Apply an understanding of pre-clinical natural and behavioral sciences to issues of patient care.
2. Demonstrate clinical competency in fundamental health care skills, such as CPR and phlebotomy.

Upon successful completion of the Health Administration option, students will be able to:

1. Critically analyze and discuss topics including organizational behavior, finance, and business.
2. Utilize and incorporate basic business technology to produce business documents, spreadsheets, and databases.

Upon successful completion of the Care Coordination option, students will be able to:

1. Apply knowledge of the health care system and its resources as well as knowledge of patient needs and preferences to support optimal wellness.
2. Utilize skills in communication, assessment, resource management to bring together health care providers and health care consumers to promote patient health.
3. Discuss fundamental concepts of care coordination, such as analyzing patient needs, establishing empathetic relationships, and determining the effectiveness of services and obstacles to gaining access to care.

## HEALTH SCIENCES CURRICULUM (PATHWAYS)

60 Credits required for AS Degree

Curriculum Coordinator: Dr. Stacia Reader

### Required Core

- A. English Composition (6 credits)
- B. Mathematical and Quantitative Reasoning<sup>1</sup> (3 Credits)
- C. Life and Physical Sciences<sup>2</sup> (4 Credits)

**SUBTOTAL 13**

### Flexible Core

- A. World Cultures and Global Issues<sup>3</sup> (3 Credits)
- B. US Experience and Diversity<sup>4</sup> (3 Credits)
- C. Creative Expression<sup>5</sup> (3 Credits)
- D. Individual and Society<sup>6</sup> (3 Credits)
- E. Scientific World<sup>7</sup> (3-4 Credits)

F. Choose one additional course from Flexible Areas A through E<sup>8</sup> (3 Credits)

**SUBTOTAL 18-19**

**Major Requirements**

- HCM 11 US Healthcare Delivery System (3 Credits)
- HLT 91 Critical Issues in Health (2 Credits)
- CPR 10 Cardiopulmonary Resuscitation (1 Credit)
- FYS 11 First Year Seminar<sup>9</sup> (1 Credit)

Select two<sup>10</sup> of the following in consultation with advisor:

- HLT 94 Human Nutrition (3 Credits)
- HLT 101 Introduction to Public Health (3 Credits)
- LAW 45 Medical Law (3 Credits)
- PSY 11 Introduction to Psychology (3 Credits)
- PEA 51 Stress Management (2 Credit) + PEA (1 Credit)
- Free Elective (0-1 Credit)<sup>11</sup>

**SUBTOTAL 13-14**

**Options: Choose one of the following options and complete all requirements**

**Healthcare Careers Preparation Option**

Select any combination of classes below in consultation with advisor for a total of 15 credits

- BIO 22 Medical Terminology (2 Credits)
- BIO 28 Microbiology & Infection Control (4 Credits)
- CHM 17 Fundamentals of General College Chemistry (4 Credits)
- CHM 18 Fundamentals of Organic Chemistry (4 Credits)
- BIO 20/HLT 20 Aspects of Human Sexuality (3 Credits)
- NMT 78 EKG Interpretation and Techniques (2 Credits)
- NMT 79 Phlebotomy (2 Credits)
- PHY 11 College Physics I (4 Credits)
- PHY 24 Principles of General Physics (4 Credits)
- PSY 40 Life Span Development (3 Credits)
- PHM 10 Pharmacology Computations (2 Credits)

**Health Administration Option** (15 Credits)

- ACC 111 Principles of Accounting 1 (4 Credits)
- BUS 51 Principles of Management (3 Credits)
- DAT 10 Computer Fundamentals and Applications (3 Credits)
- MED 11 Medical Billing and Coding (3 Credits)
- BIO 22 Medical Terminology (2 Credits)

**Care Coordination Option** (15 Credits)

- HLT 88 Fundamentals of Community Health Work (3 Credits)
- HSC 12 Human Services Skills and Methods (3 Credits)
- SOC 35 Introduction to Social Work (3 Credits)

Select two of the following in consultation with advisor:

- BIO 20/HLT 20 Human Sexuality (3 Credits)
- HLT 89 HIV/AIDS (3 Credits)
- HLT 90 Health and Aging (3 Credits)
- HLT 92 Drugs, Society and Human Behavior (3 Credits)
- HLT 94 Human Nutrition (3 Credits)
- HLT 96 Health Education for Parenting (3 Credits)

<sup>1</sup> Students in Care Coordination, Health Administration, and Healthcare Careers Preparation (with Nursing intent) Options should take MTH 23 in Required B. Students in the Healthcare Careers Preparation option with Radiologic Technology, Nuclear Medicine Technology, and Medical Laboratory Technician intent should take MTH 28.

<sup>2</sup> Students in Healthcare Careers Preparation Option with Nursing, Radiologic Technology, or Nuclear Medicine Technology intent should take BIO 23 Human Anatomy and Physiology I. Healthcare Careers Preparation students with Medical Laboratory Technician Intent should take BIO 11 General Biology I. Students in Care Coordination or Health Administration should take BIO 21 The Human Body. Note: This program has received a waiver to mandate specific STEM courses in Required C.

<sup>3</sup> Students are recommended to take SOC 11 or HIS 10/11 for Flexible Core Area A. Please consult with advisor.

<sup>4</sup> Students in the Care Coordinator Option should take HSC 10 for Flexible Core Area B. Students in Health Administration Option should take ECO 12 for Flexible Core Area B.

<sup>5</sup> Students are recommended to take ART 11 or MUS 11 for Flexible Core Area C.

<sup>6</sup> Students are recommended to take COMM 11 for Flexible Core Area D.

<sup>7</sup> Students in Healthcare Careers Preparation Option with Nursing, Radiologic Technology, or Nuclear Medicine Technology Intent should take BIO 24 Human Anatomy and Physiology II. Healthcare Careers Preparation students with Medical Laboratory Technician Intent should take BIO 12 General Biology II. Students in Care Coordination or Health Administration should take BIO20/HLT 20 Aspects of Human Sexuality. **NOTE: This program has received a waiver to mandate specific STEM courses in Flexible E.**

<sup>8</sup> Students in Care Coordination and Healthcare Careers Preparation Options are recommended to take PSY 11 for additional Flexible Core. Students in Health Administration Option are recommended to take ECO 11 or ECO 12 for additional Flexible Core.

<sup>9</sup> Students transferring into the program with 24 or more degree or equated credits will be exempt from FYS 11 and can take 1 credit of elective to satisfy this requirement.

<sup>10</sup> Students in the Healthcare Careers Preparation and Health Administration Options take are recommended to take HLT 94.

<sup>11</sup> Free electives will vary based on whether student takes 3 or 4 credit courses in Flexible Core E.