

2022-2023 TTC Catalog

Health Sciences Preparation

Certificate in Applied Science

26-34 Credit Hours

This certificate assists students in preparing for careers in Health Sciences professions and strengthens the academic skills of students seeking admission to a Health Sciences degree program at the college. The certificate will provide students structured guidance on the prerequisite and requisite courses for the Health Sciences programs.

Health Science degree applicants complete one of the following options.

Pathway 1: For Associate Degree in Dental Hygiene applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
BIO 225 Microbiology 4
CHM 105 General Organic and Biochemistry 4
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3
SOC 101 Introduction to Sociology 3
REQ HUM Select from 3
[Humanities](#)

Total: 34

Pathway 2: For Associate Degree in Emergency Medical Technology applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
IDS 109 First Year Experience Seminar 3
MAT 120 Probability and Statistics 3
REQ HUM Select from 3
[Humanities](#)

Other Requirements for Pathway 2:

Students work with academic advisor to choose 3 credit hours of appropriate courses required for designated Health Sciences degree.

Total: 26

Pathway 3: For Associate Degree in General Technology Expanded Duty Dental Assisting applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
IDS 109 First Year Experience Seminar 3
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3
REQ HUM Select from 3
[Humanities](#)

Other Requirements for Pathway 3:

Students must also select a minimum of 15 hours from the below listed courses to meet career goals. Students who intend to seek a management position in the dental services field should select the management and/or marketing courses.

BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
ECO 210 Macroeconomics 3
MGT 101 Principles of Management 3
MGT 120 Small Business Management 3
MGT 270 Managerial Communication 3
MKT 101 Marketing 3
PSY 203 Human Growth and Development 3
SOC 101 Introduction to Sociology 3
SPA 101 Elementary Spanish I 4

Total: 33

Pathway 4: For Associate Degree in Health Information Management applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
IDS 109 First Year Experience Seminar 3
MAT 120 Probability and Statistics 3
AHS 104 Medical Vocabulary-Anatomy 3
BIO 112 Basic Anatomy and Physiology 4
REQ HUM Select from 3
[Humanities](#)

Other Requirements for Pathway 4:

Students work with academic advisor to choose a minimum of 4 credit hours of appropriate courses required for designated Health Sciences degree.

Total: 26

Pathway 5: For Associate Degree in General Technology Medical Assisting applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
AHS 104 Medical Vocabulary-Anatomy 3
AHS 121 Basic Pharmacology 2
AHS 142 Phlebotomy 2
AHS 170 Fundamentals of Disease 3
MAT 120 Probability and Statistics 3
or
MAT 155 Contemporary Mathematics 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3
REQ HUM Select from 3
[Humanities](#)

Other Requirements for Pathway 5:

These students must also select a minimum of 9 hours from the below listed courses to meet career goals.

BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
BUS 101 Introduction to Business 3
MGT 101 Principles of Management 3
MGT 120 Small Business Management 3
MKT 101 Marketing 3
PSY 203 Human Growth and Development 3
PSY 212 Abnormal Psychology 3
SOC 101 Introduction to Sociology 3

Total: 34

Pathway 6: For Associate Degree in Medical Laboratory Technology applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
AHS 104 Medical Vocabulary-Anatomy 3
AHS 142 Phlebotomy 2
BIO 112 Basic Anatomy and Physiology 4

CHM 110 College Chemistry I 4
 MAT 110 College Algebra 3
 REQ HUM Select from 3
 [Humanities](#)

Other Requirements for Pathway 6:

Students work with academic advisor to choose a minimum of 1 credit hour of appropriate courses required for designated Health Sciences degree.

Total: 26

Pathway 7: For Associate Degree Occupational Therapy Assistant applicants only

ENG 101 English Composition I 3
 PSY 201 General Psychology 3
 PHI 101 Introduction to Philosophy 3
 AHS 104 Medical Vocabulary-Anatomy 3
 BIO 210 Anatomy and Physiology I 4
 BIO 211 Anatomy and Physiology II 4
 ENG 102 English Composition II 3
 MAT 120 Probability and Statistics 3
 PSY 203 Human Growth and Development 3
 SPC 205 Public Speaking 3
 or
 SPC 209 Interpersonal Communication 3

Total: 32

Pathway 8: For Associate Degree Physical Therapist Assistant applicants only

ENG 101 English Composition I 3
 PSY 201 General Psychology 3
 BIO 210 Anatomy and Physiology I 4
 BIO 211 Anatomy and Physiology II 4
 MAT 110 College Algebra 3
 or
 MAT 120 Probability and Statistics 3
 REQ HUM Select from 3
 [Humanities](#)

Other Requirements for Pathway 8:

Students work with academic advisor to choose a minimum of 6 credit hours of appropriate courses required for designated Health Sciences degree.

Total: 26

Pathway 9: For Associate Degree Radiologic Technology applicants only

ENG 101 English Composition I 3
 PSY 201 General Psychology 3

BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
MAT 110 College Algebra 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3
REQ HUM Select from 3
[Humanities](#)

Other Requirements for Pathway 9:

Students work with academic advisor to choose a minimum of 3 credit hours of appropriate courses required for designated Health Sciences degree.

Total: 26

Pathway 10: For Associate Degree Respiratory Care applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
AHS 104 Medical Vocabulary-Anatomy 3
BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
BIO 225 Microbiology 4
REQ HUM Select from 3
[Humanities](#)

Other Requirements for Pathway 10:

Students work with academic advisor to choose a minimum of 2 credit hours of appropriate courses required for designated Health Sciences degree.

Total: 26

Pathway 11: For Associate Degree Veterinary Technology applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
PHI 110 Ethics 3
BIO 101 Biological Science I 4
BIO 225 Microbiology 4
MAT 120 Probability and Statistics 3

Other Requirements for Pathway 11:

Students work with academic advisor to choose a minimum of 6 credit hours of appropriate courses required for designated Health Sciences degree.

Total: 26

Admission into this program requires proof of high school graduation or GED and qualifying placement levels. Students must meet with a Health Sciences academic advisor in their desired program of study to discuss their academic plan.

Note: Completion of the Health Science Preparation certificate does not automatically admit a student into their chosen career path. Students must complete all courses in their chosen career path with a grade of C or better and meet all other admission requirements according to their program of study. Please see the specific Health Sciences program webpage for additional information regarding admission.