

# PRE-HEALTH CONCENTRATION

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The Pre-Health Concentration is for the student who intends to transfer to a four-year college or university for further study in areas including the following: Pre-Medical, Pre-Dental, Pre-Veterinary, and other Pre-Health degrees. To complete the concentration, a student must complete the Associate of Science distribution requirements and the additional courses listed in the concentration.

## Program Learning Outcomes

Upon completion, the student will be able to:

1. Demonstrate effective communication in reading and writing.
2. Apply critical thinking across the disciplines.
3. Utilize technological skills and knowledge to achieve academic and work-related goals.
4. Demonstrate an understanding of the diversity of human culture.
5. Synthesize quantitative data and apply mathematics to solve problems.
6. Demonstrate an understanding of natural science processes and laboratory competence.
7. Integrate competencies 1-4 into a comprehensive research application.
8. Demonstrate abilities that enhance professional values.

### Pre-Health Concentration

#### Associate of Science Degree

#### Structured Course Sequence (4 Semester Plan)

##### First Year

First Semester	Hours
BIO 1110 Anatomy and Physiology I	4
COM 1110 English Composition	3
CPT 1250 Computer Applications in the Workplace	3
MTH 1370 College Algebra	4
SDE 1010 First Year Experience	1
<b>Term Hours</b>	<b>15</b>

##### Second Semester

BIO 1120 Anatomy and Physiology II	4
COM 2400 Composition and Literature	3
HST 1620 American History Since 1877	3
MTH 1260 Statistics	3
SOC 1010 Sociology	3
<b>Term Hours</b>	<b>16</b>

##### Second Year


##### First Semester

BHS 1390 Medical Terminology	2
BIO 1400 Microbiology	4

COM 2213 Verbal Judo	3
or COM 2110 or Public Speaking	
HST 1011 Western Civilization I	3
or HST 1012 or Western Civilization II	
or HST 2300 or Technology and Civilization	
or HST 2510 or History of Latin America	
or HST 2521 or Women in World History	
or LIT 2310 or Literature and the Holocaust	
PSY 1010 General Psychology	3
AS OT36 OR TAG ELECTIVE	3
1	

**Term Hours 18**

##### Second Semester

BIO 2820  Associate of Science Capstone	1
SOC 1320 American Cultural Diversity	3
OT36 ARTS AND HUMANITIES	3
2,3	
OT36 OR TAG ELECTIVE	3
4	
OT36 OR TAG ELECTIVE	3
4	

**Term Hours 13**

**Total Hours 62**

##### Capstone Course

- 1 Student may select any Ohio Transfer 36 (OT 36) or Transfer Assurance Guide (TAG) course from Mathematics, Statistics, and Logic, Natural Sciences, Business, Nutrition, Electronic Engineering Technology, Geology, and Mechanical Engineering Technology.
- 2 Student may select any Ohio Transfer 36 (OT 36) course from Arts and Humanities.
- 3 Student must complete Arts and Humanities courses from at least two different disciplines.
- 4 Student may select any Ohio Transfer 36 (OT 36) or Transfer Assurance Guide (TAG) course.

## Course Electives

### Social and Behavioral Sciences (12 Credits)

Code	Title	Hours
ANT 2411	Cultural Anthropology (TAG)	3
ECN 1410	Macro Economics (TAG)	3
ECN 1430	Micro Economics (TAG)	3
POL 1010	Introduction to Political Science	3
PSY 1010	General Psychology (OTM/TAG)	3
PSY 1730	Abnormal Psychology (OTM/TAG)	3
PSY 2150	Lifespan Psychology (OTM/TAG)	3
PSY 2200	Social Psychology (OTM/TAG)	3
PSY 2301	Educational Psychology (OTM/TAG)	3
SOC 1010	Sociology (OTM/TAG)	3
SOC 1200	Death and Dying (OTM)	3
SOC 1210	Family Sociology (OTM/TAG)	3
SOC 1320	American Cultural Diversity (OTM/TAG)	3
SOC 2211	World Religions: History, Belief, and Practice (OTM)	3
SOC 2300	Social Problems (OTM/TAG)	3

**Arts and Humanities (9 Credits)**

Code	Title	Hours
COM 1801	Creative Writing: Fiction	3
COM 2110	Public Speaking (OTM/TAG)	3
HST 1011	Western Civilization I (OTM/TAG)	3
HST 1012	Western Civilization II (OTM/TAG)	3
HST 1610	American History to 1877 (OTM/TAG)	3
HST 1620	American History Since 1877 (OTM/TAG)	3
HST 2300	Technology and Civilization	3
HST 2510	History of Latin America	3
LIT 2210	Introduction to Literature (OTM)	3
LIT 2215	Native American Literature (OTM)	3
LIT 2227	Literature of Graphic Novels (OTM)	3
LIT 2250	The American Short Story (OTM)	3
LIT 2260	Fantasy Literature (OTM/TAG)	3
LIT 2301	British Literature I (OTM)	3
LIT 2305	Introduction to Shakespeare (OTM)	3
LIT 2310	Literature and the Holocaust (OTM)	3
LIT 2450	Themes in Literature and Film (OTM)	3
PHL 1011	Introduction to Philosophy	3
THR 1010	Introduction to Theatre (OTM)	3

**Mathematics (6-10 Credits)**

Code	Title	Hours
MTH 1190	Finite Mathematics/Business (OTM)	3
MTH 1260	Statistics (OTM)	3
MTH 1370	College Algebra (OTM)	4
MTH 1430	Trigonometry (OTM)	3
MTH 1611	Business Calculus (OTM)	5
MTH 1711	Calculus I (OTM)	5
MTH 1721	Calculus II (OTM)	5
MTH 2660	Calculus III (OTM/TAG)	4
MTH 2670	Differential Equations (OTM/TAG)	4
MTH 2680	Elementary Linear Algebra (OTM/TAG)	4

**Information Literacy (3 Credits)**

Code	Title	Hours
CPT 1250	Computer Applications in the Workplace	3

**Sciences (8 Credits)**

Code	Title	Hours
CHM 1110	Introductory General Chemistry (OTM)	4
CHM 1120	Introductory Organic and Biochemistry (OTM)	4
PHY 1120	Physics I (OTM/TAG)	4
PHY 1130	Physics II (OTM/TAG)	4
BIO 1400	Microbiology (OTM)	4
BIO 1110	Anatomy and Physiology I (OTM)	4
BIO 1120	Anatomy and Physiology II (OTM)	4
BIO 2121	Introduction to Human Genetics (OTM)	4
GLG 1000	Physical Geology (OTM/TAG)	4


**English Composition and Literature (6 Credits)**

Code	Title	Hours
COM 1110	English Composition (OTM)	3
COM 1140	Technical Writing (OTM)	3
COM 1160	Business Communications (OTM/TAG)	3
COM 1200	Writing in the Sciences (OTM)	3
COM 2213	Verbal Judo (OTM)	3
COM 2400	Composition and Literature (OTM)	3

**Other Approved Course Electives**

Code	Title	Hours
<b>Accounting</b>		
ACC 1010	Corporate Accounting Principles (TAG)	4
ACC 1020	Managerial Accounting Principles (TAG)	4
<b>Medical Terminology</b>		
BHS 1390	Medical Terminology (TAG)	2
<b>Business</b>		
BUS 2100	Business Law (TAG)	3
<b>Electronic Engineering Technology</b>		
EET 1110	Circuit Analysis I (TAG)	3
EET 1130	Electronics (TAG)	4
<b>Human Service</b>		
HUM 1111	Introduction to Social Work (TAG)	3
<b>Mechanical Engineering Design</b>		
MET 1000	Engineering Graphics with AutoCAD (TAG)	3
<b>Mechanical Engineering Technology</b>		
MET 1020	Material Science (TAG)	3
MET 2210	Strength of Materials (TAG)	3
<b>Marketing</b>		
MKT 1010	Principles of Marketing (TAG)	3
<b>Spanish</b>		
SPN 1010	Beginning Spanish Language I (TAG)	3
SPN 1020	Beginning Spanish Language II (TAG)	3
SPN 2010	Intermediate Spanish I (TAG)	3
SPN 2020	Intermediate Spanish II (TAG)	3

**Other Requirements**

Code	Title	Hours
BIO 2820 	Associate of Science Capstone	1
SDE 1010	First Year Experience	1

 Capstone Course