



CATALOG ADDENDUM: MAY 2021

Below are listed additions and corrections to the 2020-21 Bucks County Community College Catalog since its publication. All corrections listed below have been made in the main online catalog sections to which they apply. They do not appear, however, in the PDF version of the full catalog.

SECTION 2: MAJOR AND CERTIFICATE PROGRAMS

Majors and Certificate Programs: Descriptions

Public Health (Curriculum Code. No. 1207): This new program has been created:

Public Health

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Department of Health Sciences

Founders 112 • phone (215) 968-8353 (option 3)

Curriculum Code No. _____

The Associate of Science in Public Health program prepares students for transfer into baccalaureate degree programs within the field of Public Health or affiliated areas of study.

Graduates of this program are able to:

- describe socioeconomic, behavioral, environmental, and biological factors that affect human health, risk of disease, and health inequity;
- explain how epidemiologists track disease;
- explain the role of government in the provision and regulation of healthcare;
- discuss the nature of oppression and its impact on marginalized communities; and
- critique health information sources.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>BIOL181</u> Human Anatomy & Physiology I ^{C,7}	4
<u>BIOL182</u> Human Anatomy & Physiology II ^C	4
<u>CISC110</u> Introduction to Information Systems ^{A,C,9}	3

<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,C,4,5}	3
<u>COMP110</u> English Composition I ^{A,C,2,10}	3
<u>COMP111</u> English Composition II ^{C,2,4,10} or <u>COMP114</u> Technical Writing ^C	3
<u>HITT190</u> Introduction to Health Information Technology	3
<u>HITT250</u> Basic Pathophysiology and Pharmacology for Health Information Technology ^C	3
<u>HLTH 103</u> Life and Health ²	3
<u>MATH115</u> Elementary Statistics ^{A,C,2,6}	3
<u>MEDA120</u> Medical Terminology	3
<u>PSYC110</u> Introduction to Psychology ^{A,C,2,3,8}	3
<u>SOCI110</u> Introduction to Sociology ^{2,3,8}	3
<u>SOCI140</u> Peoples of America ³	3
Arts/Humanities ^{B,1}	3
Health Behavior & Behavioral Change Electives ^D	6
Math/Science Elective ^E	3-4
Social Determinants of Health Elective ^F	3
Total Credits	60-61

RECOMMENDED SEMESTER SEQUENCE

The recommended course sequence is designed for full-time students who average 15 credit hours per semester. Students may need more time to complete major requirements based on placement testing. This additional time will entail some adjustments to the sequence recommended.

FIRST SEMESTER

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>BIOL181</u> Human Anatomy & Physiology I ^{C,7}	4
<u>COMP110</u> English Composition I ^{A,C,2,10}	3
<u>HITT190</u> Introduction to Health Information Technology	3
<u>HLTH 103</u>	3

Life and Health ²	
MEDA120 Medical Terminology	3
Total Credit Hours	17

SECOND SEMESTER

Course	Credits
BIOL182 Human Anatomy & Physiology II ^C	4
COMP111 English Composition II ^{C,2,4,10} or COMP114 Technical Writing ^C	3
PSYC110 Introduction to Psychology ^{A,C,2,3,8}	3
Math/Science Elective ^E	3-4
Total Credit Hours	13-14

THIRD SEMESTER

Course	Credits
CISC110 Introduction to Information Systems ^{A,C,9}	3
HITT250 Basic Pathophysiology and Pharmacology for Health Information Technology ^C	3
MATH115 Elementary Statistics ^{A,C,2,6}	3
SOCI110 Introduction to Sociology ^{2,3,8}	3
Health Behavior & Behavioral Change Elective ^D	3
Total Credit Hours	15

FOURTH SEMESTER

Course	Credits
COMM110 Effective Speaking ^{A,C,4,5}	3
SOCI140 Peoples of America ³	3
Arts/Humanities ^{B,1}	3
Health Behavior & Behavioral Change Elective ^D	3
Social Determinants of Health Elective ^F	3
Total Credit Hours	15

^A Placement testing required

^B Select from one of the approved Arts/Humanities courses in the catalog.

^C Course requires prerequisite.

^D Health Behavior & Behavior Change Electives - Students may select from the following courses that examine behaviors that affect health or interventions / messages that may affect behavior: HLTH120;

HLTH120N; HLTH121; HLTH130; HLTH250; MGMT145; MKTG200; MKTG220; MKTG230; SOCI150; PSYC120; PSYC125; PSYC160; or SSWK215.

^E Math/Science Elective - Students may select from the following: BIOL228; CHEM101; CHEM121; MATH101; MATH120; MATH122; MATH125; MATH140; MATH215; or SCIE105.

^F Social Determinants of Health Elective - Students may select from the following courses that examine sociocultural factors that can impact health: CLTR110; COMM215; HLTH200; POLI111; POLI120; PSYC200; SSWK110; SOCI230; or WMST110.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

SECTION 3: COURSE DESCRIPTIONS

Intermediate Chinese I (CHNS201): This new course has been created:

Department of Language & Literature: Chinese

Master Course Outline

I. Course Number and Title: CHNS201 Intermediate Chinese I

II. Number of Credits: 3 credits

III. Number of Instructional Minutes: 2250

IV. Prerequisite:

CHNS111 (C or better) or equivalent or permission of the Department of Language & Literature

Co-requisite: None

V. Other Pertinent Information:

Students are expected to spend between six and nine hours per week outside of class in activities, such as learning vocabulary, reading, completing written exercises, working on

pronunciation, preparing oral presentations, and working with the multimedia files that accompany the text.

This course meets the General Education requirement in Arts/Humanities.

This course meets the General Education requirement in Diversity.

VI. Catalog Course Description

In this continuation of study from CHNS111, students further develop comprehensive listening, speaking, reading, and writing skills. A deeper understanding of historical and cultural background is included.

VII. Required Course Content and Direction

A. Course Learning Goals

Students will:

1. acquire and demonstrate increasing competence in the four language skills: speaking, listening, reading, and writing [Arts/Humanities];
2. recognize and respond appropriately and with increasing detail to the most common spoken situations;
3. demonstrate ability to write increasingly complex sentences in Chinese; and
4. explain an increasing number of aspects of life in the Chinese-speaking countries [Diversity].

B. Planned Sequence of Topics and/or Learning Activities

Grammatical topics:

- Making comparisons
- Result complements
- Direction complements
- Action in progress
- Aspect particles
- Time duration and frequency
- Sequencing events in time
- Subordinate clauses

- Classifiers
- Prepositions

Vocabulary and Social Contexts:

- Talking about the weather
- Dining out
- Asking and giving directions
- Social gathering
- Visiting a doctor

Cultural Contexts:

- Climate and weather
- Food scene
- Travel and leisure
- Healthcare

C. Assessment Methods for Course Learning Goals:

1. quizzes and tests;
2. written assignments, such as short compositions and grammatical exercises;
3. listening comprehension exercises; and
4. speaking tasks, which may include oral interviews, conversations, and/or presentations that assess proficiency levels.

Quizzes and tests taken in class include the cultural topics presented in the

course. Students articulate similarities and differences in the various cultures of the world and demonstrate familiarity with the skills necessary to make informed judgments.

D. Reference, Resource, or Learning Material to be used by students:

Instructors employ textbook, workbook, multimedia resources, and Internet resources of the first-year and second-year proficiency-based Chinese program. See course syllabus.

[Nutrition \(HLTH120\)](#): This course number has changed to HLTH120c to designate faculty credentials that are teaching the course.

[Physics II \(PHYS122\)](#): This course outline for PHYS122 has been updated to:

Department of Science, Technology, Engineering & Mathematics: Physics

I. Course Number and Title

PHYS122 Physics II

II. Number of Credits

4 credits

III. Number of Instructional Minutes

4500 minutes

IV. Prerequisites

PHYS121 (C or better)

Corequisites

None

V. Other Pertinent Information

This course includes a laboratory component. This course requires student access to a graphing scientific calculator. Student mathematical preparation for this course must include performance

level skills in arithmetic, scientific notation, algebra, plane and solid geometry, trigonometry, vector mathematics, and calculus. Student must also be able to efficiently carry out numerical calculations, graphical analysis, and numerical calculus on a graphing scientific calculator.

VI. Catalog Course Description

This lecture and laboratory course continues a rigorous introduction to classical physics designed specifically for engineering and science majors. Topics include: electric forces and fields, potential and potential energy, capacitors, direct current and transient circuits, magnetic forces and fields, electromagnetic induction, inductors, photons, geometric and physical optics.

VII. Required Course Content and Direction

A. Course Learning Goals

Students will:

1. analyze calculus-based physics problems;
2. apply fundamental principles of mathematics, physics, engineering, and laboratory measurements to solve accessible science and engineering problems;

3. employ the skill of intelligent mathematical modeling in order to analyze and make reasoned judgments with respect to science and engineering problems;
4. collect experimental data and evaluate the results of observations, including an assessment of
experimental uncertainties;
5. operate as part of a team; and
6. write scientific laboratory reports.

B. Planned Sequence of Topics and/or Learning Activities

The following topics are presented:

1. electric charge
2. Coulomb's law
3. the electric field
4. Gauss's Law
5. electric potential and potential energy
6. capacitance and capacitive circuits
7. current, resistance, Ohm's Law, power
8. direct current and RC transient circuits
9. magnetism, magnetic force and field
10. Biot Savart law, Ampere's law, sources of magnetic field
11. induction, Faraday's Law and Lenz's law
12. inductance, inductors and RL circuits
13. Maxwell's Equations, and the wave nature of light
14. polarization, geometric optics of mirrors and thin lenses
15. interference, and diffraction
16. the nature and properties of photons

Laboratory

In order to pass this course, a student must pass the laboratory portion of the course. The laboratory portion comprises at least 20% of the course grade.

The following laboratory topics are covered in this course:

1. electrostatics
2. Coulomb's Law
3. electric potential
4. capacitance and capacitive circuits
5. Ohm's law
6. resistive circuits and Kirchhoff's laws
7. RC Circuits
8. magnetism and magnetic fields
9. inductance and inductors
10. waves and AC current
11. geometric optics
12. interference and diffraction

C. Assessment Methods for Course Learning Goals

Exams, homework, laboratory reports, notebooks, and other assessment tools as specified in the individual instructor's syllabus will be utilized.

D. Reference, Resource, or Learning Materials to be used by Student:

Students use educational resources as approved by the department and specified in the individual instructor's syllabus.

SECTION 4: COLLEGE INFORMATION

[Prior Learning Assessment Program](#): The Participation description for the program is revised to indicate the removal of the requirement that a student complete one semester at Bucks prior to the awarding of any PLA credit: "To be eligible to participate in the Prior Learning Assessment (PLA) Program at Bucks students must be in good academic and financial standing with the College, currently enrolled, and actively pursuing classes in a Program of Study that includes requirements for the course(s) they propose to challenge."