

**Bucks County Community College**  
**A.S. BIOLOGY (1003)**  
**And**  
**Holy Family University**  
**B.A. BIOLOGY**

**BCCC Degree requirements as of Fall 2015**

**Bucks CCC - FRESHMEN YEAR – A.S.. Biology (1003)**

___ (4) BIOL 121 (BIOL 120) ___ (4) CHEM 121 (CHEM 120) ___ (3) COMP 110 (ENGL 101) ___ (4) MATH 140 (MATH 211) # 15	___ (4) BIOL 122 (BIOL 121) ___ (4) CHEM 122 (CHEM 121) ___ (3) COMP 111 (ENGL 102) ___ (4) MATH 141 (MATH 212) # 15
--	--

**Bucks CCC -SOPHOMORE YEAR – A.S. Biology (1003)**

___ (5) CHEM 221(CHEM 207) ___ (4) BIOL 228 (BIOL 206, free elective) ___ (3) COMM 110 (ENGL115) (Core: Speech) ___ (3) Soc Sci/Diversity: SOCI 110 (SOCO 101) OR 15 PSYC 110 (PSYC 101) (Core: SC#2)	___ (5) CHEM 222 (CHEM 208) ___ (4) BIOL 220 (BIOL 332, Biology elective) ___ (3) Arts/Humanities: See note @ ___ (3) Elective: HUMN 120 (RELS 104)(Core: TL#1) (##) ___ (3) Elective: See note ** (##) 18
---	---

**In addition to the courses required for the associate degree at Bucks County Community College the student will need to take:**

\_\_\_ (3) CORE: Modern Language I (N/GP #1) \*      \_\_\_ (3) CORE: Modern Language II (N/GP #2) \*

**These additional courses are required in order for the student to complete the degree at Holy Family University within four semesters. Should the student elect not to take these credits while at Bucks County Community College, the student will be required to take during Summer I and Summer II at Holy Family University, either before the Fall semester of transfer or between Junior and Senior year of study.**

**Holy Family University - JUNIOR YEAR – B.A. Biology**

___ (4) BIOL 211/L: Cell Biology ___ (4) BIOL 300: Advanced Microbiology ___ (4) BIOL 207/L: Anatomy and Physiology I ___ (4) PHYS 201/L: General Physics I 16	___ (3) CORE: THEOLOGICAL LITERACY #2 ___ (3) CORE: NAT SCI.( Free <u>Core</u> choice for NS#1) # ___ (3) CORE: NAT/GBL PERSPECT. #3 or #4 @ ___ (4) BIOL 208L: Anatomy and Physiology II ___ (4) PHYS 202/L: General Physics II (14#) / 17
--	--

**Holy Family University – SENIOR YEAR – B.A. Biology**

___ (3) CORE:NAT SCI (Free Core Choice for NS#2) ___ (3) BIOL 304: Principles of Genetics ___ (2) BIOL 325: Seminar: Scientific Literature ___ (3/4) Biology Elective (@) ___ (2) BIOL 427: Research/Internship 13/14	___ (3) CORE: GNED 400: Interdisc. Core Seminar ___ (3) BIOL 324: Inorganic / Org & Cult Evolution ___ (4) BIOL 412/L: Molecular Genetics ___ (3/4) Biology Elective (@) ___ (2) BIOL 428: Research/Internship 15/16
--	---

**TOTAL CREDITS: 130-135 #**

**Note: A minimum of 60 credits must be earned at Holy Family University to be eligible for commencement honors. It may be necessary to add an additional free elective based upon the Biology electives selected.**

**Bucks County Community College**  
**A.S. Biology (1003)**  
**And**  
**Holy Family University**  
**B.A. Biology**

\* Two semesters of same language sequence are needed to fulfill requirement.

(@) The student may select one course from either group:

Group #1 – HIST 151 (HIST 203); HIST 152 (HIST 204); HIST 176 (HIST 205) (Core: Nat/Global Perspective #3)

Group #2 – HIST 113 (HIST 108); HIST 114 (HIST 208) (Core: Nat/Gbl Perspective #4)

The core area not fulfilled at Bucks will be fulfilled at Holy Family University.

\*\* The student may select one course from any of the following courses in Philosophy to fulfill the core requirement in Philosophy at Holy Family University:

PHIL 125 (PHIL 101); PHIL 105 (PHIL 202); PHIL 111 (PHIL 301)

(Core: Philosophy – Social Consciousness #1 )

# **Note:**

**Should the student complete MATH 122 (3cr) (MATH 150) and/or MATH 125 (4cr) (MATH 150), one of the two courses will transfer in as a Core: Natural Science #1 (Free Core Choice for Natural Science #1). Students need to complete MATH 140 and MATH 141 prior to transfer in order to be able to complete requirements for the Biology degree at Holy Family within two years of transfer.**

**This would increase the final course credits to 72/73 credits at Bucks County Community College.**

**(##) The Associate degree program at Bucks County Community College requires only one 4 credit general elective in the final semester; however, in order to fulfill degree requirements in the Biology program at Holy Family within the two year time frame, two 3 credit courses are needed in the final semester, as indicated. Both fulfill core requirements at Holy Family University.**

(@) **Biology Electives** - Select three (3) courses from the following: (Selection should be made in consult with faculty advisor.)

BIOL 312: Cell-Cell Interaction (offered Fall – odd years)

BIOL 330: General Immunology (offered Spring – odd years)

BIOL 332/L: Ecology (offered Fall – even years) - **TAKEN AT BUCKS AS REQUIRED**

**COURSE (BIOL 220) WITHIN ASSOCIATE DEGREE PROGRAM**

BIOL 417/L: Modern Concepts in Biochemistry I (offered every Fall)

BIOL 418/L: Modern Concepts in Biochemistry II (offered every Spring) OR

Any 300 or 400 level Biology course not required within the concentration

**Bucks County Community College**  
**A.A. Biology (1003)**  
**And**  
**Holy Family University**  
**B.A. Biology**

**Additional information regarding Biology concentration:**

Continuation in major requires GPA of 2.5 in all completed science courses.  
At least nine credits of 300/400 level concentration coursework must be completed within the school.  
Successful completion of written and oral component of comprehensive examination and poster presentation is required.

Note: Course sequence progression is based on admission to Holy Family University for the Fall semester.  
Admitting in the Spring semester alters the program progression as outlined and will result in extending degree completion beyond the four semester sequence.

3-2016 FINAL – BCCC: Biology /HF: Biology  
New General Education Core at Bucks County Community College as of Fall 2015.  
Effective for all students who entered Bucks County Community College as of Fall 2015.