

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

BCCC Degree requirements as of Fall 2014

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

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| ___ (4) BIOL 121 (BIOL 120) | ___ (4) BIOL 122 (BIOL 121) |
| ___ (4) CHEM 121 (CHEM 120) | ___ (4) CHEM 122 (CHEM 121) |
| ___ (3) COMP 110 (ENGL 101) | ___ (3) COMP 111 (ENGL 102) |
| ___ (4) MATH 140 (MATH 211) # | ___ (3) Cult Per: PHIL 125 (PHIL 101) (SC #1) |
| 15 | ___ (3) Per Hlth: PSYC 125 or HLTH 120 or |
| | 17 COMM 105 (Free Elective, req.) + |

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

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| ___ (5) CHEM 221 (CHEM 207) | ___ (5) CHEM 222 (CHEM 208) |
| ___ (4) MATH 141 (MATH 212) | ___ (4) BIOL 220 (Core: NS #1 replacement) |
| XX (4) BIOL 228 (BIOL 206)(X) | ___ (3) COMM 110 (ENGL 115) (Core: Speech) |
| ___ (3) Soc Per: SOCI 110 (SOCO 101) OR | XX (3) INTG 285: Student choice of topic (X) |
| 16 PSYC 110 (PSYC 101) (Core: SC#2) | PLUS ___ (3) HUMN 120 or HIST 151/152/176 ## |
| | 18 |

##Note: In addition to the courses required for the Associate degree at BCCCC - the student should complete either;

HUMN 120 (RELS 104) to fulfill the Core: Theological Literacy #1 or HIST 151 (HIST 203); HIST 152 (HIST 204); HIST 176 (HIST 205) to fulfill the Core: Global Perspective #3. The student will then take the course not selected at Holy Family.

This additional course is required in order for the student to complete the degree at Holy Family within four semesters.

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

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| ___ (3) Modern Language I (GP #1) * | ___ (3) Modern Language II (GP #2) * |
| ___ (3) BIOL 209: Cell Biology | ___ (3) CORE: GP #3(Amer Hist) or CORE: TL#1 |
| ___ (4) BIOL 300: Advanced Microbiology | ___ (3) BIOL 210: Intro to Scientific Techniques |
| ___ (4) PHYS 201/L: General Physics I | ___ (4) PHYS 202/L: General Physics II |
| ___ (4) BIOL 207/L: Anatomy and Physiology I | ___ (4) BIOL 208L: Anatomy and Physiology II |
| 18 | 17 |

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

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| ___ (3) CORE: GLOBAL PERSPECTIVE #4(Gbl Hist) | ___ (3) CORE: NAT SCI.(Free <u>Core</u> choice for NS#2) # |
| ___ (3) CORE: THEOLOGICAL LITERACY #2 | ___ (3) CORE: GNED 400: Interdisc. Core Seminar |
| ___ (3) BIOL 304: Principles of Genetics | ___ (3) BIOL 407: Molecular Genetics |
| ___ (2) BIOL 325: Seminar: Scientific Literature | ___ (2) BIOL 326: Seminar: Inorg., Org. & Cult Evol |
| ___ (3/4) Biology Elective (@) | ___ (3/4) Biology Elective (@) |
| ___ (2) BIOL 427: Research/Internship | ___ (2) BIOL 428: Research/Internship |
| 16/17 | 16/17 |

TOTAL CREDITS: 133-135

Note: A minimum of 60 credits must be earned at Holy Family University to be eligible for commencement honors.

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(X) Course fulfills requirement for Associate degree at Bucks County Community College; however, does not fulfill any requirement in the Biology program at Holy Family University.

+ Selection limited to 3 credit course to ensure transfer as free elective.

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

Note:

If student is required to take MATH 125 (4cr) (MATH 150) prior to MATH 140, this additional course would be eligible to transfer to fulfill CORE: Natural Science - (Free Core Choice for Natural Science #2), currently indicated to be taken once transferred to Holy Family University.

This does not alter the required courses to be taken at Bucks County Community College as outlined on the course sequence sheet as a requirement for the degree at Bucks County.

This would increase the final course credits to 70 credits at Bucks County Community College.

(@) **Biology Electives** - Select two (2) 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 331:Botany; the Biosphere & Ecosystems (offered Fall - even years)
- BIOL 408: Cell & Molecular Techniques (offered Spring - even years)
- BIOL 411: Mammalian Histology (offered Fall – odd years)
- BIOL 415: Modern Concepts in Biochemistry I (offered every Fall)
- BIOL 416: Modern Concepts in Biochemistry II (offered every Spring)

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 a comprehensive examination 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.