

Sample 4-year Guided Pathway for  
**Bachelor of Science in Biology**  
 Concentration in **Human and Health Science**  
 Academic Catalog Requirements **2018-2019**

This is **ONLY a sample** degree pathway. Please meet with your academic advisor prior to registration to formulate your own plan, and for additional information refer to the [academic degree requirements](#).

*\*If you were placed into foundational Writing and/or Mathematics courses based on your placement and/or test scores, please consult with your academic advisor to develop a degree plan.*

| Year | Fall Semester                         |           | Spring Semester                    |           |
|------|---------------------------------------|-----------|------------------------------------|-----------|
| 1st  | GE WC&IL 1                            | 3         | GE WC&IL 2                         | 3         |
|      | MATH 2214 Calculus I (GE QA&SR)       | 3         | MATH 2215 Calculus II              | 3         |
|      | BIOL 2050 General Biology I           | 4         | BIOL 2052 General Biology II       | 4         |
|      | BIOL 2051 General Biology I Lab       | 1         | BIOL 2053 General Biology II Lab   | 1         |
|      | CHEM 2050 General Chemistry I (GE NW) | 3         | CHEM 2052 General Chemistry II     | 3         |
|      | CHEM 2051 General Chemistry I Lab     | 1         | CHEM 2053 General Chemistry II Lab | 1         |
|      | <b>Total Credits</b>                  | <b>15</b> | <b>Total Credits</b>               | <b>15</b> |

| Year | Fall Semester                          |           | Spring Semester                  |           |
|------|----------------------------------------|-----------|----------------------------------|-----------|
| 2nd  | GE H&P                                 | 3         | GE T&M                           | 3         |
|      | GE CA                                  | 3         | GE CT&E                          | 3         |
|      | BIOL 3170 Cell & Molecular Biology     | 3         | PSY 1000 Introductory Psychology | 3         |
|      | BIOL 3171 Cell & Molecular Biology Lab | 1         | Unrestricted Electives           | 1         |
|      | PHYS 2050 General Physics I            | 4         | PHYS 2052 General Physics II     | 4         |
|      | PHYS 2051 General Physics I Lab        | 1         | PHYS 2053 General Physics II Lab | 1         |
|      | <b>Total Credits</b>                   | <b>16</b> | <b>Total Credits</b>             | <b>16</b> |

| Year | Fall Semester                     |           | Spring Semester                    |           |
|------|-----------------------------------|-----------|------------------------------------|-----------|
| 3rd  | GE AE                             | 3         | GE GC&D                            | 3         |
|      | BIOL 3050 Genetics                | 3         | GE SW                              | 3         |
|      | CHEM 3030 Organic Chemistry I     | 3         | CHEM 3032 Organic Chemistry II     | 3         |
|      | CHEM 3031 Organic Chemistry I Lab | 1         | CHEM 3033 Organic Chemistry II Lab | 1         |
|      | BIOL 3034 Human Physiology        | 3         | BIOL 3036 Human Anatomy            | 3         |
|      | BIOL 3035 Human Physiology Lab    | 1         | MATH 1123 Statistics               | 3         |
|      | <b>Total Credits</b>              | <b>14</b> | <b>Total Credits</b>               | <b>16</b> |

| Year | Fall Semester                      |           | Spring Semester                      |           |
|------|------------------------------------|-----------|--------------------------------------|-----------|
| 4th  | BIOL 3040 General Microbiology     | 3         | Upper-Division Unrestricted Elective | 3         |
|      | BIOL 3041 General Microbiology Lab | 1         | BIOL 4940 Biology Senior Seminar     | 1         |
|      | CHEM 4030 Biochemistry             | 3         | Unrestricted Electives               | 3         |
|      | GE T&I                             | 3         | Unrestricted Electives               | 3         |
|      | Unrestricted Electives             | 3         | Unrestricted Electives               | 3         |
|      | Unrestricted Electives             | 2         |                                      |           |
|      | <b>Total Credits</b>               | <b>15</b> | <b>Total Credits</b>                 | <b>13</b> |

*\*\*This schedule is only a suggestion; make sure you understand the prerequisites for each course and consult with your Academic Advisor. Course availability subject to change; actual degree audits may change depending on course availability in a given semester.*

#### Baccalaureate Requirements

- Total Degree Credits Required = 120 credits of which a minimum of 36 are Upper-Division Credits (level 3000 and above)
- Completion of Major Requirements (*as indicated above*)
- Completion of General Education Requirements (*as indicated above*)
- Cumulative GPA of at least 2.0; Major GPA of at least 2.0
- Residency Requirements: 12 credits of major course work and the last 30 credits immediately preceding graduation (*Service member's Opportunity College students please see your academic advisor*)

# General Education Curriculum

## Academic Catalog 2018-2019

This is a general education worksheet that illustrates our general education curriculum requirements for any of our Bachelor's degree programs. Please utilize this worksheet in addition to the Sample Guided Pathways to identify the GE categories and their offerings.

| Hawaii & the Pacific (GE H&P) |                                        |
|-------------------------------|----------------------------------------|
| AL 1050                       | Languages in the Pacific               |
| ANTH 1500                     | Contemporary Social Activism in Hawaii |
| ARTH 1001                     | Arts of Oceania                        |
| BIOL 2170                     | Ethnobotany: People and Plants         |
| ENG 1101                      | Representations of Pacific Life        |
| HAWN 1100                     | Beginning Hawaiian I                   |
| HIST 1558                     | Living History of Hawaii               |
| PHIL 1001                     | Philosophies of Hawaii & the Pacific   |

| Quantitative Analysis & Symbolic Reasoning (GE QA&SR) |                                 |
|-------------------------------------------------------|---------------------------------|
| CSCI 1534                                             | Data Analysis and Visualization |
| MATH 1120                                             | How Numbers Shape Our Lives     |
| MATH 1123                                             | Statistics                      |
| MATH 1130                                             | Pre-Calculus I                  |
| MATH 1150                                             | Pre-Calculus I & II             |
| MATH 2214                                             | Calculus I                      |
| PHIL 2090                                             | Principles of Logic             |
| PSY 1100                                              | Probabilistic Thinking          |

| Written Communication & Information Literacy I (GE WC&IL 1) |                                 |
|-------------------------------------------------------------|---------------------------------|
| WRI 1100                                                    | Writing and Analyzing Arguments |
| WRI 1150                                                    | Literature & Argument           |

| Written Communication & Information Literacy II (GE WC&IL 2) |                                            |
|--------------------------------------------------------------|--------------------------------------------|
| WRI 1200                                                     | Research, Argument & Writing               |
| WRI 1250                                                     | Introduction to Research in the Humanities |

| American Experience (GE AE) |                                                    |
|-----------------------------|----------------------------------------------------|
| AMST 2000                   | Topics in American Studies                         |
| HIST 1401                   | American Stories: Themes in American Hist. to 1877 |
| HIST 1402                   | The American Experience: 1865 to Present           |
| HUM 1270                    | Intro. to Gender & Women's Studies                 |
| PADM 1000                   | Intro. to Leadership in America                    |
| PHIL 2500                   | Ethics in America                                  |
| PSCI 1400                   | The American Political System                      |
| SOC 1000                    | Introduction to Sociology                          |

| Creative Arts (GE CA) |                                           |
|-----------------------|-------------------------------------------|
| ARTH 2301             | World Art History                         |
| ARTS 1000             | Intro. to Visual Arts                     |
| ARTS 2150             | Intro. to Design                          |
| ENG 2000              | The Art of Literature                     |
| MUS 1000              | Intro. to Classical Music                 |
| MUS 2101              | Music in World Culture                    |
| THEA 2320             | Acting I: Basic Acting for Stage & Screen |
| WRI 2601              | Intro. to Creative Writing                |

| Critical Thinking & Expression (GE CT&E) |                                             |
|------------------------------------------|---------------------------------------------|
| COM 1000                                 | Intro. to Communication Skills              |
| COM 2000                                 | Public Speaking                             |
| ECON 2010                                | Principles of Microeconomics                |
| ENG 2100                                 | Ways of Reading: Film, Literature & Culture |
| GEOG 2000                                | Visual Human Geography                      |
| HIST 1717                                | Reacting to the Past                        |
| PH 1300                                  | Public Health Ethics                        |
| PSY 1000                                 | Intro. to Psychology                        |

| Global Crossroads & Diversification (GE GC&D) |                                    |
|-----------------------------------------------|------------------------------------|
| AL 2000                                       | Intro. to Linguistics              |
| ANTH 2000                                     | Cultural Anthropology              |
| GEOG 1500                                     | World Regional Geography           |
| HIST 1002                                     | Global Crossroads: 1500 to Present |
| INTR 1000                                     | The International System           |
| MULT 2000                                     | Global Cinema Studies              |
| PH 2060                                       | Comparative Healthcare Systems     |
| REL 1000                                      | Intro. to World Religions          |

| Natural World (GE NW) |                             |
|-----------------------|-----------------------------|
| BIOL 1000             | Intro. Biology              |
| BIOL 1300             | Nutrition: Eat Smarter      |
| CHEM 1000             | Intro. Chemistry            |
| CHEM 2050             | General Chemistry           |
| GEOG 1000             | Intro to Physical Geography |
| GEOL 1000             | The Dynamic Earth           |
| MARS 1000             | Intro. Oceanography         |
| PHYS 1020             | Astronomy                   |

| Sustainable World (GE SW) |                                                       |
|---------------------------|-------------------------------------------------------|
| AQUA 1200                 | Global Aquaculture for Food Security & Conservation   |
| ARTS 1003                 | Sustainable Art & Design                              |
| BIOL 1500                 | Conservation Biology                                  |
| ENVS 1000                 | The Sustainability Challenge                          |
| ENVS 1030                 | Tropical Ecology & Sustainability                     |
| MARS 1500                 | Marine Biology and the Global Ocean                   |
| SWRK 2010                 | Social Sustainability, Social Work & Entrepreneurship |

| Technology & Innovation (GE T&I) |                                                      |
|----------------------------------|------------------------------------------------------|
| CSCI 1041                        | Digital Literacy in a Global Society                 |
| CSCI 1061                        | Mobile Technologies for the 21 <sup>st</sup> Century |
| CSCI 1611                        | A Gentle Intro. to Programming                       |
| ENGE 1000                        | Intro. to Engineering Syst. & Pro. Practice          |
| HIST 2630                        | The History of Science & Technology                  |
| MATH 1234                        | Intro. to Cryptology                                 |
| MIS 2000                         | Information Tools for Business                       |
| MULT 1100                        | Foundations of Multimedia Production                 |

| Traditions & Movements that Shape the World (GE T&M) |                                                 |
|------------------------------------------------------|-------------------------------------------------|
| AL 1100                                              | Language, Power, and Identity                   |
| CLST 1000                                            | Great Books East and West                       |
| ECON 2015                                            | Principles of Macroeconomics                    |
| ENG 2500                                             | World Literature                                |
| HIST 1001                                            | Traditions & Encounters: World Cultures to 1500 |
| PH 1200                                              | Intro. to Public Health Professions             |
| PSCI 2000                                            | Intro. to Politics                              |
| SOC 2600                                             | Peace Studies                                   |

For more information on our General Education curriculum please refer to our Academic Catalog or you may refer here:

[http://www.hpu.edu/FacultyAssembly/General\\_Education\\_Curriculum\\_and\\_Learning\\_Assessment\\_Committee.html](http://www.hpu.edu/FacultyAssembly/General_Education_Curriculum_and_Learning_Assessment_Committee.html)