

## Chart of Introductory Course Sequences for Science and Math Programs 2022-2023

You should take these introductory courses See links below for full course sequences	If your intended program is						
	Biology (f)	Chemistry or Biochemistry (g)	Health Science (e)	Physics	3/2 Engineering	Math	Computer Science
<b>BIOL 112</b> Evolution and Genetics	Fall or Winter	Fall or Winter (g)	Fall or Winter				
<b>BIOL 123</b> Form and Function	Fall, Winter, or Spring		Fall, Winter, or Spring				
<b>CHEM 110 (c)</b> Composition & Structure		Fall or Winter	Fall or Winter		Fall or Winter		
<b>CHEM 120</b> Chemical Reactivity		Winter or Spring	Winter or Spring				
<b>MATH110/111 (a)</b> Calculus with Review		Fall/Winter or Winter/Spring		Fall/Winter or Winter/Spring	Fall/Winter or Winter/Spring	Fall/Winter or Winter/Spring	Fall/Winter or Winter/Spring
<b>MATH 112 (a)</b> Calculus 1		Fall, Winter, or Spring		Fall	Fall	Fall	Fall, Winter, or Spring
<b>MATH 113 (a)</b> Calculus 2				Winter or Spring as soon as possible after MATH110/111 or MATH112	Winter or Spring as soon as possible after MATH110/111 or MATH112	Winter or Spring as soon as possible after MATH110/111 or MATH112	
<b>MATH 214 (b)</b> Calculus 3 <b>MATH 240</b> Linear Algebra				Spring as soon as possible after MATH113	Spring as soon as possible after MATH113	Spring as soon as possible after MATH113	
<b>PHYS 150 (d)</b> Intro Physics 1				Winter as soon as possible after MATH110/111 or 112	Winter as soon as possible after MATH110/111 or 112		
<b>PHYS 152</b> Intro Physics 2				Spring following PHYS150	Spring following PHYS150		
<b>COMP 101 + COMP 102/103/104 (h)</b> Intro to Computers, Programming Basics					Fall		Fall
<b>COMP 110</b> Intro to Programming							Winter
<b>COMP 210</b> Data Structures							Spring

- (a) Take the Calculus Placement Exam. Students with previous calculus work in high school and/or AP Credit may place out of MATH110/111, MATH112 and/or MATH113. Please note that completion of the two-term Calculus with Review sequence MATH110/111 is equivalent to completion of MATH112 Calculus 1.
- (b) MATH214 and MATH240 are offered every fall and spring and can be taken in any order. They require MATH112 and MATH113 (or equivalent placement).

- (c) Take the Chemistry Placement Exam. Students with previous chemistry work in high school and/or AP Credit may place out of CHEM 110.
- (d) MATH112, or the MATH110/111 sequence, or equivalent placement is a prerequisite and must be taken before PHYS150.
- (e) There isn't a "pre-med" major at Kalamazoo College. The courses listed here form part of the traditional preparatory coursework needed for application to health professions post-graduate programs. Students interested in preparing for postgrad training in health science can have majors outside the science fields.
- (f) Students interested in studying biology are often interested in preparing for post-graduate programs related to biomedicine and allied health professions. Please see "Health Science" above for additional courses recommended for the first year of study.
- (g) Students interested in majoring in Biochemistry are strongly encouraged to complete BIOL112 during either fall or winter terms of the first year.
- (h) COMP-101, 102, 103, and 104 are .5 unit courses. A combination of COMP-101/102, COMP-101/103, or COMP-101/104 should be taken to equal a full 1.0 unit course.

**Full details for each program can be found at the links below:**

Biology: <https://biology.kzoo.edu/requirements/>

Chemistry or Biochemistry: <https://chemistry.kzoo.edu/curriculum/requirements-for-the-major/>

Health Science: <https://careersinhealth.kzoo.edu/>

Physics: <https://physics.kzoo.edu/major-sequence/>

3/2 Engineering: <https://physics.kzoo.edu/major-sequence/>

Math: <https://mathematics.kzoo.edu/requirements-for-the-major-or-minor/>

Computer Science: <https://computerscience.kzoo.edu/requirements/majorminor/>

**These concentrations, which contain courses from more than one department, may also be of interest:**

Biological Physics: <https://physics.kzoo.edu/biological-physics-requirements/>

Community & Global Health: <http://www.kzoo.edu/programs/community-global-health/>

Environmental Studies: <https://environmentalstudies.kzoo.edu/requirements/>

Neuroscience: <http://www.kzoo.edu/programs/neuroscience/?id=44&type=1>