Health Science: Bachelor of Science (B.S.)

Degree Type
Bachelor of Science

Colby-Sawyer College seeks to provide students a Bachelor of Science degree in health science, balanced with core liberal education courses. Students graduating with a B.S. in health science will be prepared to enter a variety of health- and wellness-related fields in a diverse range of organizations and systems. From government to private nonprofit, to clinical or community health systems, the preparation of our students is focused on the broad skills of critical thinking, exceptional communication skills, ethical and professional behavior and other qualities required for success in the growing health and wellness occupations. The Bachelor of Science (B.S.) provides a four-year traditional path for those wishing to enter health and wellness occupations, while also creating a gateway for higher degree attainment for those who have an Associate of Science degree by providing a 2+2 model.

Objective

It is our goal to prepare students to enter the thriving field of allied health systems. We provide a liberal arts education with core courses in health and wellness and associated sciences to prepare students to diagnose, evaluate and/or treat disease and promote health and wellness in various populations and through different types of organizations. Students may choose to follow a broad health science curriculum or to utilize their free electives to focus on a pathway that is based more in science, wellness or administration.

Learning Outcomes

- Identify common terminology, tools and practices used in health and wellness systems.
- Critically appraise health science literature and apply the appropriate principles and procedures to the recognition, evaluation, interpretation and understanding of current issues.
- Discover and assess community resources for patients of health and wellness providers.
- Describe potential risks to wellness stemming from behavioral, environmental and social factors.
- Practice appropriate scientific inquiry, mathematical fluency and research and/or lab techniques for problem solving.
- Assess external issues regarding technology, demographics, regulatory and other influences as they impact health and wellness systems and activities.
- Critically appraise health science literature and apply the appropriate principles and procedures to the recognition, evaluation, interpretation and understanding of current issues.

Health Science B.S. Progress to Completion Requirements:

CHE 101, CHE 102: must meet math requirement for these courses.

Item #	Title	Credits
BIO 106	The Chemical and Cellular Basis of Life (+lab)	4.0
BIO 205	Human Anatomy and Physiology I (+lab)	4.0
BIO 206	Human Anatomy and Physiology II (+lab)	4.0
BIO 207	Microbiology (+lab)	4.0
CHE 101	Principles of Chemistry I (+lab)	4.0
CHE 102	Principles of Chemistry II (+lab)	4.0
ESS 100	Personal Health and Wellness	4.0
ESS 225	Introduction to Exercise Science and Health Sciences	4.0
HEA 105	The Vocabulary of Health	1.0
HS 285	Health Science Internship	2.0-4
HS 485	Health Science Internship	5.0-12
HS 487	Research in ESS: Critical Components	2.0
HS 488	Research in ESS: Assessment and Analysis	2.0
PBH 330	Epidemiology	4.0
	WRT 216 or 335	4
	Minimum 16 credits from the following classes	16

Suggested Registration Sequence

First Year - Fall

Item #	Title	Credits
FYE 101	First Year Experience	4.0
WRT 101	Introduction to Academic Writing	4.0
ESS 225	Introduction to Exercise Science and Health Sciences	4.0
BIO 106	The Chemical and Cellular Basis of Life (+lab)	4.0

First Year - Spring

Item #	Title	Credits
BIO 205	Human Anatomy and Physiology I (+lab)	4.0
ESS 100	Personal Health and Wellness	4.0
HEA 105	The Vocabulary of Health	1.0
MAT 220	Introduction to Statistics	4.0
	Lib Ed - Liberal Education Core Course	4

Sophomore Year - Fall

Item #	Title	Credits
BIO 206	Human Anatomy and Physiology II (+lab)	4.0
CHE 101	Principles of Chemistry I (+lab)	4.0
	Free Elective Course	4
	Lib Ed - Liberal Education Core Course	4

Sophomore Year - Spring

Item #	Title	Credits
CHE 102	Principles of Chemistry II (+lab)	4.0
	Lib Ed - Liberal Education Core Course	4
	Lib Ed - Liberal Education Core Course	4
	HS Elective Course or Free Elective Course	4

Junior Year - Fall

Item #	Title	Credits
	IE - Integrative Experience Course	4
PBH 330	Epidemiology	4.0
	WRT 216 or 335	4
	Lib Ed - Liberal Education Core Course	4

Junior Year - Spring

Item #	Title	Credits
BIO 207	Microbiology (+lab)	4.0
	300- to 400-Level Health Science Elective Course	4
HS 285	Health Science Internship	2.0-4
	HS Elective Course or Free Elective Course	4

Junior Year - Summer

Item #	Title	Credits
HS 485	Health Science Internship	5.0-12

Senior Year - Fall

Item #	Title	Credits
HS 487	Research in ESS: Critical Components	2.0
	300- to 400-Level Health Science Elective Course	4
	HS Elective Course or Free Elective Course	4
	HS Elective Course or Free Elective Course	4

Senior Year - Spring

Item #	Title	Credits
HS 488	Research in ESS: Assessment and Analysis	2.0
	300- to 400-Level Health Science Elective Course	4
	HS Elective Course	4
	HS Elective Course	4

Suggested interface with pre-professional options:

- Pre-PT suggested prerequisites: BIO106, 205, 206; CHE 101,102; ESS 323, 324; MAT 206, 220; PHY 101, 102; PSY 101, 240
- Pre-OT suggested prerequisites: BIO 205, 206; MAT 220; PSY 101, 216, 240; SOC 101; WRT 216
- Pre-Med: BIO 106, 205, 206, 304; CHE 101,102; MAT 221, 220; CHE 101, 307, 308; PHY 101,102.
- Pre-PA suggested prerequisites: BIO 205, 206 207; CHE 101, 102; PSY 101, MAT 220