

Class Recommendations for Your First Semester as a BYU Life Sciences Student 2024

All Majors:

LFSCI 101 (.5 hrs): Services offered by the Life Sciences Advisement Center; choosing an appropriate major in the college.

and WRTG 150 (3 hrs): Processes of writing, reading, and research with an emphasis on argumentation and rhetorical analysis.

and UNIV 101 (2 hrs): Intended for incoming freshmen, the course focuses on becoming an educated person and making the transition to life as a BYU Student. Topics include but are not limited to: managing expectations, relationships with faculty, healthy mindsets, working with diverse thoughts and opinions, and planning next steps.

and a class to fulfill Religion Education Requirements

Undecided Life Sciences Majors:

CELL 120 (3 hrs): General biology course designed for biological science majors, emphasizing the scientific method, cell theory, biochemical unity, the central dogma, bioenergetics, reproduction, and evolutionary theory. Examples of these biological principles will focus on whole organism biology such as physiology, neuroscience, and developmental biology examples.

or MMBIO 121 (3 hrs): An overview of the living world and how it functions and adapts in the context of human health and disease.

or BIO 130 (4 hrs): General biology course with laboratory for biology majors. Introduction to disciplines in the life sciences including methods for scientific inquiry, biochemical dynamics, cell structure and function, evolutionary theory, bioenergetics, and ecological interactions.

and CHEM 105 (4 hrs): Atomic and molecular structure including bonding and periodic properties of the elements; reaction energetics, electrochemistry, acids and bases, inorganic and organic chemistry. Includes an exploratory laboratory component.

Biodiversity and Conservation:

BIO 130 (4 hrs): General biology course with laboratory for biology majors. Introduction to disciplines in the life sciences including methods for scientific inquiry, biochemical dynamics, cell structure and function, evolutionary theory, bioenergetics, and ecological interactions.

and CHEM 105 (4 hrs): Atomic and molecular structure including bonding and periodic properties of the elements; reaction energetics, electrochemistry, acids and bases, inorganic and organic chemistry. Includes an exploratory laboratory component.

Bioinformatics:

BIO 130 (4 hrs): General biology course with laboratory for biology majors. Introduction to disciplines in the life sciences including methods for scientific inquiry, biochemical dynamics, cell structure and function, evolutionary theory, bioenergetics, and ecological interactions.

and BIO 165 (3 hrs): Introduction to basic concepts in bioinformatics. Standard bioinformatic applications.

Biological Science Education:

BIO 130 (4 hrs): General biology course with laboratory for biology majors. Introduction to disciplines in the life sciences including methods for scientific inquiry, biochemical dynamics, cell structure and function, evolutionary theory, bioenergetics, and ecological interactions.
and CHEM 105 (4 hrs): Atomic and molecular structure including bonding and periodic properties of the elements; reaction energetics, electrochemistry, acids and bases, inorganic and organic chemistry. Includes an exploratory laboratory component.

Biology:

BIO 130 (4 hrs): General biology course with laboratory for biology majors. Introduction to disciplines in the life sciences including methods for scientific inquiry, biochemical dynamics, cell structure and function, evolutionary theory, bioenergetics, and ecological interactions.
and CHEM 105 (4 hrs): Atomic and molecular structure including bonding and periodic properties of the elements; reaction energetics, electrochemistry, acids and bases, inorganic and organic chemistry. Includes an exploratory laboratory component.

Biophysics:

CHEM 105 (4 hrs): Atomic and molecular structure including bonding and periodic properties of the elements; reaction energetics, electrochemistry, acids and bases, inorganic and organic chemistry. Includes an exploratory laboratory component.
and CELL 120 (3 hrs): General biology course designed for biological science majors, emphasizing the scientific method, cell theory, biochemical unity, the central dogma, bioenergetics, reproduction, and evolutionary theory. Examples of these biological principles will focus on whole organism biology such as physiology, neuroscience, and developmental biology examples.
and MATH 112 (4 hrs): Differential and integral calculus: limits; continuity; the derivative and applications; extrema; the definite integral; fundamental theorem of calculus; L'Hopital's rule.

Cell Biology and Physiology:

CHEM 105 (4 hrs): Atomic and molecular structure including bonding and periodic properties of the elements; reaction energetics, electrochemistry, acids and bases, inorganic and organic chemistry. Includes an exploratory laboratory component.
and CELL 120 (3 hrs): General biology course designed for biological science majors, emphasizing the scientific method, cell theory, biochemical unity, the central dogma, bioenergetics, reproduction, and evolutionary theory. Examples of these biological principles will focus on whole organism biology such as physiology, neuroscience, and developmental biology examples.

(Pre)-Dietetics:

NDFS 100 (3 hrs): Food-oriented study of nutritional facts and principles as a basis for dietary choices; consequences of choices; scientifically examining controversial topics.

and either CHEM 101 (3 hrs): Atomic and molecular structure, periodic relationships, states of matter, chemical reactions and stoichiometry, acids and bases.

or CHEM 105 (4 hrs): Atomic and molecular structure including bonding and periodic properties of the elements; reaction energetics, electrochemistry, acids and bases, inorganic and organic chemistry. Includes an exploratory laboratory component.

Environmental Science and Sustainability:

PWS 155 (1 hr): Career guidance and exposure to the multi-discipline fields of environmental science including resume building, internship placement, and professional networking.

and PWS 282 (3 hrs): Physical, chemical and microbiological properties of soils that affect plant growth in natural, agricultural, and urban environments.

and PWS 283 (1 hr): Laboratory and field techniques in determining soil physical, chemical, and biological properties.

Exercise and Wellness:

NDFS 100 (3 hrs): Food-oriented study of nutritional facts and principles as a basis for dietary choices; consequences of choices; scientifically examining controversial topics.

Exercise Science:

CELL 120 (3 hrs): General biology course designed for biological science majors, emphasizing the scientific method, cell theory, biochemical unity, the central dogma, bioenergetics, reproduction, and evolutionary theory. Examples of these biological principles will focus on whole organism biology such as physiology, neuroscience, and developmental biology examples.

and EXSC 151 (1 hr): Introduction to Exercise Sciences

and CHEM 105 (4 hrs): Atomic and molecular structure including bonding and periodic properties of the elements; reaction energetics, electrochemistry, acids and bases, inorganic and organic chemistry. Includes an exploratory laboratory component.

Food Science:

NDFS 100 (3 hrs): Food-oriented study of nutritional facts and principles as a basis for dietary choices; consequences of choices; scientifically examining controversial topics.

and NDFS 191 (1 hr): Guest lectures and exposure to vocations in food science.

and CHEM 105 (4 hrs): Atomic and molecular structure including bonding and periodic properties of the elements; reaction energetics, electrochemistry, acids and bases, inorganic and organic chemistry. Includes an exploratory laboratory component.

Genetics, Genomics, and Biotechnology:

CELL 120 (3 hrs): General biology course designed for biological science majors, emphasizing the scientific method, cell theory, biochemical unity, the central dogma, bioenergetics, reproduction, and evolutionary theory. Examples of these biological principles will focus on whole organism biology such as physiology, neuroscience, and developmental biology examples.

or MMBIO 121 (3 hrs): An overview of the living world and how it functions and adapts in the context of human health and disease.

and CHEM 105 (4 hrs): Atomic and molecular structure including bonding and periodic properties of the elements; reaction energetics, electrochemistry, acids and bases, inorganic and organic chemistry. Includes an exploratory laboratory component.

Microbiology:

MMBIO 121 (3 hrs): An overview of the living world and how it functions and adapts in the context of human health and disease.

or CELL 120 (3 hrs): General biology course designed for biological science majors, emphasizing the scientific method, cell theory, biochemical unity, the central dogma, bioenergetics, reproduction, and evolutionary theory. Examples of these biological principles will focus on whole organism biology such as physiology, neuroscience, and developmental biology examples.

and CHEM 105 (4 hrs): Atomic and molecular structure including bonding and periodic properties of the elements; reaction energetics, electrochemistry, acids and bases, inorganic and organic chemistry. Includes an exploratory laboratory component.

(Pre)-MLS:

MMBIO 102 (1 hr): Hospital laboratory techniques.

and MMBIO 121 (3 hrs): An overview of the living world and how it functions and adapts in the context of human health and disease.

and CHEM 105 (4 hrs): Atomic and molecular structure including bonding and periodic properties of the elements; reaction energetics, electrochemistry, acids and bases, inorganic and organic chemistry. Includes an exploratory laboratory component.

Molecular Biology:

MMBIO 121 (3 hrs): An overview of the living world and how it functions and adapts in the context of human health and disease.

or CELL 120 (3 hrs): General biology course designed for biological science majors, emphasizing the scientific method, cell theory, biochemical unity, the central dogma, bioenergetics, reproduction, and evolutionary theory. Examples of these biological principles will focus on whole organism biology such as physiology, neuroscience, and developmental biology examples.

and CHEM 105 (4 hrs): Atomic and molecular structure including bonding and periodic properties of the elements; reaction energetics, electrochemistry, acids and bases, inorganic and organic chemistry. Includes an exploratory laboratory component.

Neuroscience:

CHEM 105 (4 hrs): Atomic and molecular structure including bonding and periodic properties of the elements; reaction energetics, electrochemistry, acids and bases, inorganic and organic chemistry. Includes an exploratory laboratory component.

and CELL 120 (3 hrs): General biology course designed for biological science majors, emphasizing the scientific method, cell theory, biochemical unity, the central dogma,

bioenergetics, reproduction, and evolutionary theory. Examples of these biological principles will focus on whole organism biology such as physiology, neuroscience, and developmental biology examples.

and PSYCH 111 (3 hrs): Basic course in modern scientific psychology.

Nutritional Science:

NDFS 100 (3 hrs): Food-oriented study of nutritional facts and principles as a basis for dietary choices; consequences of choices; scientifically examining controversial topics.

and CHEM 105 (4 hrs): Atomic and molecular structure including bonding and periodic properties of the elements; reaction energetics, electrochemistry, acids and bases, inorganic and organic chemistry. Includes an exploratory laboratory component.

Plant and Landscape Systems:

PWS 100 (3 hrs): Introduction to principles of plant function and diversity.

and PWS 103 (3 hrs): Design and composition as applied to development of residential grounds.

and PWS 191 (1 hr): Introduction to careers in the plant and landscape systems industry. Overview of professional opportunities presented by faculty and industry professionals.

Public Health: Environmental/Occupational Health:

HLTH 210 (3 hrs): Introduction to public health including the public health system and the essential public health services. An overview of the public health major including exploration of careers and graduate school.

Public Health: Epidemiology:

HLTH 210 (3 hrs): Introduction to public health including the public health system and the essential public health services. An overview of the public health major including exploration of careers and graduate school.

and STAT 121 (3 hrs): Graphical displays and numerical summaries, data collection methods, probability, sampling distributions, confidence intervals and hypothesis testing involving one or two means and proportions, contingency tables, correlation and simple linear regression.

Public Health: Health Promotion:

HLTH 210 (3 hrs): Introduction to public health including the public health system and the essential public health services. An overview of the public health major including exploration of careers and graduate school.

Public Health: Health Science:

HLTH 210 (3 hrs): Introduction to public health including the public health system and the essential public health services. An overview of the public health major including exploration of careers and graduate school.

and either CELL 120 (3 hrs): General biology course designed for biological science majors, emphasizing the scientific method, cell theory, biochemical unity, the central dogma, bioenergetics, reproduction, and evolutionary theory. Examples of these biological principles will

focus on whole organism biology such as physiology, neuroscience, and developmental biology examples.

or MMBIO 121 (3 hrs): An overview of the living world and how it functions and adapts in the context of human health and disease.

and CHEM 105 (4 hrs): Atomic and molecular structure including bonding and periodic properties of the elements; reaction energetics, electrochemistry, acids and bases, inorganic and organic chemistry. Includes an exploratory laboratory component.

Wildlife and Wildlands Conservation:

PWS 110 (3 hrs): An overview of the fundamentals of sustainable food crop systems, which will involve practical knowledge and assessment of small-scale food production, hydroponics, enhanced food security, and balanced land use.

and PWS 115 (1 hrs): Assisting students in choosing individual professions and curricula.