

BIOCHEMISTRY – B.A.

GENERAL SCIENCE REQUIREMENTS:

OLD (37-42 hrs)

CHEM 184 & 188 (10 hrs)
Foundations of Chemistry I & II

CHEM 624 (3 hrs)
Organic Chemistry I

CHEM 625 (2 hrs)
Organic Chemistry I Lab

CHEM 626 (3 hrs)
Organic Chemistry II

CHEM 627 (2 hrs)
Organic Chemistry II Lab

CHEM 640 (3 hrs) or CHEM 646 (4 hrs)
Biological Physical Chemistry or
Physical Chemistry

MATH 115 & 116 (6 hrs) or
MATH 121 & 122 (10 hrs)
Calculus I & II

PHSX 211 & PHSX 212 or
PHSX 114 & PHSX 115 (8 hrs)
General Physics 1 & 2 or
College Physics 1 & 2

NEW (35-39 hrs)

CHEM 184 & 188 (10 hrs)
Foundations of Chemistry I & II

CHEM 624 (3 hrs)
Organic Chemistry I

CHEM 625 (2 hrs)
Organic Chemistry I Lab

CHEM 626 (3 hrs)
Organic Chemistry II

CHEM 640 (3 hrs)
Biological Physical Chemistry

MATH 115 & 116 (6 hrs) or
MATH 121 & 122 (10 hrs)
Calculus I & II

PHSX 211 & PHSX 212 or
PHSX 114 & PHSX 115 (8 hrs)
General Physics 1 & 2 or
College Physics 1 & 2

BIOCHEMISTRY REQUIREMENTS:

OLD (17 hrs)

BIOL 150 or 151 (4 hrs)
Principles of Molecular & Cellular Biology

BIOL 420 (1 hr)
Seminar in Biochemistry

BIOL 658 (3 hrs)
Biochemistry I

NEW (25 hrs)

BIOL 150 or 151 (4 hrs)
Principles of Molecular & Cellular Biology

BIOL 152 or 153 (4 hrs)
Principles of Organismal Biology

BIOL 404 (3 hrs)
Introduction to Genetics

BIOL 420 (1 hr)
Seminar in Biochemistry

BIOL 658 (3 hrs)
Biochemistry I

BIOL 659 (3 hrs)
Biochemistry Laboratory

BIOL 665 (3 hrs)
Biochemistry II

BIOL 672 (3 hrs)
Gene Expression

BIOL 659 (2 hrs)
Introductory Biology Lab

BIOL 664 (3 hrs)
Biochemistry II

BIOL 665 (2 hrs)
Advanced Biochemistry Lab

BIOL 672 (3 hrs)
Gene Expression

GENERAL BIOLOGY ELECTIVES:

OLD (6 hrs)

NEW (6 hrs)

Taken from biology courses numbered 400 or higher, selected in consultation with a Biochemistry advisor.

BIOCHEMISTRY – B.S.

GENERAL SCIENCE REQUIREMENTS:

OLD (44-45 hrs)

NEW (44-45 hrs)

CHEM 184 & 188 (10 hrs)
Foundations of Chemistry I & II

NO CHANGES!

CHEM 516 (3 hrs)
Analytical Chemistry

CHEM 624 (3 hrs)
Organic Chemistry I

CHEM 625 (2 hrs)
Organic Chemistry I Lab

CHEM 626 (3 hrs)
Organic Chemistry II

CHEM 627 (2 hrs)
Organic Chemistry II Lab

CHEM 640 (3 hrs) or CHEM 646 (4 hrs)
Biological Physical Chemistry or Physical Chemistry

MATH 121 & 122 (10 hrs)
Calculus I & II

PHSX 211 & PHSX 212 or
PHSX 114 & PHSX 115 (8 hrs)
General Physics 1 & 2 or
College Physics 1 & 2

BIOCHEMISTRY REQUIREMENTS:

OLD (17 hrs)

BIOL 150 or 151 (4 hrs)
Principles of Molecular & Cellular Biology

BIOL 420 (1 hr)
Seminar in Biochemistry

BIOL 658 (3 hrs)
Biochemistry I

BIOL 659 (3 hrs)
Biochemistry Laboratory

BIOL 665 (3 hrs)
Biochemistry II

BIOL 672 (3 hrs)
Gene Expression

NEW (25 hrs)

BIOL 150 or 151 (4 hrs)
Principles of Molecular & Cellular Biology

BIOL 152 or 153 (4 hrs)
Principles of Organismal Biology

BIOL 404 (3 hrs)
Introduction to Genetics

BIOL 420 (1 hr)
Seminar in Biochemistry

BIOL 658 (3 hrs)
Biochemistry I

BIOL 659 (2 hrs)
Introductory Biology Lab

BIOL 664 (3 hrs)
Biochemistry II

BIOL 665 (2 hrs)
Advanced Biochemistry Lab

BIOL 672 (3 hrs)
Gene Expression

GENERAL BIOLOGY ELECTIVES:

OLD (12 hrs)

Taken from biology courses numbered 400 or higher, selected in consultation with a Biochemistry advisor.

NEW (12 hrs)

BIOLOGY – B.A.

GENERAL SCIENCE REQUIREMENTS:

OLD (26-28 hrs)

CHEM 184 & 188 (10 hrs)
Foundations of Chemistry I & II

CHEM 622 or 624 (3 hrs)
Fundamentals of Organic Chemistry or
Organic Chemistry I

CHEM 625 (2 hrs)
Organic Chemistry I Lab

NEW (28-29 hrs)

CHEM 184 & 188 (10 hrs)
Foundations of Chemistry I & II

CHEM 622 or 624 (3 hrs)
Fundamentals of Organic Chemistry or
Organic Chemistry I

CHEM 625 (2 hrs)
Organic Chemistry I Lab

MATH 115 or 121 (3-5 hrs)
Calculus I

MATH 115 & MATH 116 (6 hrs) or
MATH 121 (5 hrs)
Calculus I & II

PHSX 211 & PHSX 212 or
PHSX 114 & PHSX 115 (8 hrs)
General Physics 1 & 2 or
College Physics 1 & 2

PHSX 211 & PHSX 212 or
PHSX 114 & PHSX 115 (8 hrs)
General Physics 1 & 2 or
College Physics 1 & 2

BIOLOGY CORE REQUIREMENTS:

OLD (23-24 hrs)

BIOL 150 or 151 (4 hrs)
Principles of Molecular & Cellular Biology

BIOL 152 or 153 (4 hrs)
Principles of Organismal Biology

BIOL 404 (3 hrs)
Introduction to Genetics

NEW (24-25 hrs)

BIOL 150 or 151 (4 hrs)
Principles of Molecular & Cellular Biology

BIOL 152 or 153 (4 hrs)
Principles of Organismal Biology

BIOL 404 (3 hrs)
Introduction to Genetics

BIOL 412 (3 hrs)
Evolutionary Biology

BIOL 420 (1 hr)
Seminar taken in final year

PLUS

2 of these 4 courses:
BIOL 412 (3 hrs)
Evolutionary Biology

BIOL 413 (3 hrs)
History & Diversity of Organisms

BIOL 414 (3 hrs)
Principles of Ecology

BIOL 550 (3 hrs)
Introduction to Systematics

1 of these 3 courses:

BIOL 413 (3 hrs)
History & Diversity of Organisms

BIOL 414 (3 hrs)
Principles of Ecology

BIOL 550 (3 hrs)
Introduction to Systematics

PLUS

2 of these 5 courses:

BIOL 400 (3 hrs)
Fundamentals of Microbiology

BIOL 408 (3 hrs)
Physiology of Organisms

2 of these 5 courses:

BIOL 400 (3 hrs)
Fundamentals of Microbiology

BIOL 408 (3 hrs)
Physiology of Organisms

BIOL 416 (3 hrs)
Cell Structure and Function

BIOL 417 (3 hrs)
Biology of Development

BIOL 600 (4 hrs)
Introductory Biochemistry Lectures

BIOL 416 (3 hrs)
Cell Structure and Function

BIOL 417 (3 hrs)
Biology of Development

BIOL 600 (4 hrs)
Introductory Biochemistry Lectures

Biology Elective and Laboratory Requirements:

OLD (9 hrs)

NEW (10 hrs)

BIOL courses numbered 400 or higher, including at least 4 hrs. of laboratory credit

B.S. – BIODIVERSITY, ECOLOGY, & EVOLUTIONARY BIOLOGY

GENERAL SCIENCE REQUIREMENTS:

OLD (26-31 hrs)

NEW (24-27 hrs)

CHEM 184 & 188 (10 hrs)
Foundations of Chemistry I & II

CHEM 184 & 188 (10 hrs)
Foundations of Chemistry I & II

CHEM 622 or 624 (3 hrs)
Fundamentals of Organic Chemistry or
Organic Chemistry I

CHEM 622 or 624 (3 hrs)
Fundamentals of Organic Chemistry or
Organic Chemistry I

MATH 115 & 116 (6 hrs) or
MATH 121 & 122 (10 hrs)
Calculus I & II

MATH 115 & 116 (6 hrs) or
MATH 121 (5 hrs)
Calculus I & II

2 of the following:

PHSX 114 & 115 (8)
College Physics I & II

2 of the following:

PHSX 114 & 115 (8)
College Physics I & II

ATMO 105 (3 hrs)
Introductory Meteorology

ATMO 105 (3 hrs)
Introductory Meteorology

EECS 138 (3 hrs)
Introduction to Computing

EECS (3 hrs)
Introduction to Computing

GENERAL BIOLOGY REQUIREMENTS

OLD (17 hrs)

NEW (17-18 hrs)

BIOL 150 or 151 (4 hrs)
Principles of Molecular & Cellular Biology

BIOL 150 or 151 (4 hrs)
Principles of Molecular & Cellular Biology

BIOL 152 or 153 (4 hrs)
Principles of Organismal Biology

BIOL 152 or 153 (4 hrs)
Principles of Organismal Biology

BIOL 404 (3 hrs)

BIOL 404 (3 hrs)

Introduction to Genetics

1 of these 3 courses (3 hrs):

BIOL 408 (3 hrs)
Physiology of Organisms

BIOL 416 (3 hrs)
Cell Structure & Function

BIOL 417 (3 hrs)
Biology of Development

Introduction to Genetics

2 of these 4 courses (6-7 hrs)

BIOL 408 (3 hrs)
Physiology of Organisms

BIOL 416 (3 hrs)
Cell Structure & Function

BIOL 417 (3 hrs)
Biology of Development

BIOL 600 (4 hrs)
Introductory Biochemistry Lectures

BIODIVERSITY, ECOLOGY, EVOLUTIONARY BIOLOGY REQUIREMENTS:

OLD (17 hrs)

BIOL 412 (3 hrs)
Evolutionary Biology

BIOL 413 (3 hrs)
History & Diversity of Organisms

BIOL 414 (3 hrs)
Principles of Ecology

BIOL 415 (2 hrs)
Field & Laboratory Methods in Ecology

BIOL 550 (3 hrs)
Introduction to Systematics

BIOL 570 (3 hrs)
Introduction to Biostatistics

NEW (18 hrs)

BIOL 412 (3 hrs)
Evolutionary Biology

BIOL 413 (3 hrs)
History & Diversity of Organisms

BIOL 414 (3 hrs)
Principles of Ecology

BIOL 415 (2 hrs)
Field & Laboratory Methods in Ecology

BIOL 420 (1 hr)
Seminar, taken during final year

BIOL 550 (3 hrs)
Introduction to Systematics

BIOL 570 (3 hrs)
Introduction to Biostatistics

GENERAL BIOLOGY ELECTIVE & LAB REQUIREMENTS:

OLD (13 hrs)

NEW (13 hrs)

BIOL courses numbered 400 or higher which include at least 3 hrs. of laboratory credit and 2 hrs. of a seminar or topics course (BIOL 419, 420, 701).

B.S. -- CELL BIOLOGY

GENERAL SCIENCE REQUIREMENTS:

OLD (26-28 hrs)

NEW (31-32 hrs)

CHEM 184 & 188 (10 hrs)
Foundations of Chemistry I & II

CHEM 622 or 624 (3 hrs)
Fundamentals of Organic Chemistry or
Organic Chemistry I

CHEM 625 (2 hrs)
Organic Chemistry I Lab

MATH 115 or 121 (3-5 hrs)
Calculus I

PHSX 211 & PHSX 212 or
PHSX 114 & PHSX 115 (8 hrs)
General Physics 1 & 2 or
College Physics 1 & 2

CHEM 184 & 188 (10 hrs)
Foundations of Chemistry I & II

CHEM 622 or 624 (3 hrs)
Fundamentals of Organic Chemistry or
Organic Chemistry I

CHEM 625 (2 hrs)
Organic Chemistry I Lab

CHEM 626 (3 hrs)
Organic Chemistry II

MATH 115 & MATH 116 (6 hrs) or
MATH 121 (5 hrs)
Calculus I & II

PHSX 211 & PHSX 212 or
PHSX 114 & PHSX 115 (8 hrs)
General Physics 1 & 2 or
College Physics 1 & 2

GENERAL BIOLOGY REQUIREMENTS:

OLD (18 hrs)

BIOL 150 or 151 (4 hrs)
Principles of Molecular & Cellular Biology

BIOL 152 or 153 (4 hrs)
Principles of Organismal Biology

BIOL 404 (3 hrs)
Introduction to Genetics

1 of these 4 courses (3 hrs):
BIOL 408 (3 hrs)
Physiology of Organisms

BIOL 412 (3 hrs)
Evolutionary Biology

BIOL 413 (3 hrs)
History & Diversity of Organisms

BIOL 414 (3 hrs)
Principles of Ecology

BIOL 600 (4 hrs)
Introductory Biochemistry Lectures

NEW (21 hrs)

BIOL 150 or 151 (4 hrs)
Principles of Molecular & Cellular Biology

BIOL 152 or 153 (4 hrs)
Principles of Organismal Biology

BIOL 404 (3 hrs)
Introduction to Genetics

BIOL 408 (3 hrs)
Physiology of Organisms

BIOL 412 (3 hrs)
Evolutionary Biology

BIOL 600 (4 hrs)
Introductory Biochemistry Lectures

GENERAL BIOLOGY ELECTIVE & LAB REQUIREMENTS:

OLD (10 hrs)

Taken from BIOL courses numbered 400 or higher, including 2 hours of lab credit and 2 hours of a seminar or topics course

NEW (4 hrs)

At least 2 hours of lab credit in labs numbered 400 or higher and 2 hours of a seminar or topics course

CELL BIOLOGY REQUIREMENTS:

OLD (18 hrs)

BIOL 416 (3 hrs)
Cell Structure & Function

NEW (18 hrs)

NO CHANGES!

BIOL 417 (3 hrs)

Biology of Development

BIOL 426 (3 hrs)

Laboratory in Cell Biology

CELL BIOLOGY ELECTIVE REQUIREMENTS:

OLD (9 hrs)

NEW (9 hrs)

You must take the 9 hours from a specific list of classes. You can see the list at http://www.kuub.ku.edu/degrees/bs_cellbiology.shtml. There are 2 new classes on the list: BIOL 646 Mammalian Physiology and BIOL 719 Light and Electron Microscopy

B.S. -- GENETICS

GENERAL SCIENCE REQUIREMENTS:

OLD (26-28 hrs)

NEW (28-29 hrs)

CHEM 184 & 188 (10 hrs)

Foundations of Chemistry I & II

CHEM 184 & 188 (10 hrs)

Foundations of Chemistry I & II

CHEM 622 or 624 (3 hrs)

Fundamentals of Organic Chemistry or
Organic Chemistry I

CHEM 622 or 624 (3 hrs)

Fundamentals of Organic Chemistry or
Organic Chemistry I

CHEM 625 (2 hrs)

Organic Chemistry I Lab

CHEM 625 (2 hrs)

Organic Chemistry I Lab

MATH 115 or 121 (3-5 hrs)

Calculus I

MATH 115 & MATH 116 (6) or

MATH 121 (5)

Calculus I & II

PHSX 211 & PHSX 212 or

PHSX 114 & PHSX 115 (8 hrs)

General Physics 1 & 2 or

College Physics 1 & 2

PHSX 211 & PHSX 212 or

PHSX 114 & PHSX 115 (8 hrs)

General Physics 1 & 2 or

College Physics 1 & 2

GENERAL BIOLOGY REQUIREMENTS:

OLD (24 hrs)

BIOL 150 or 151 (4 hrs)
Principles of Molecular & Cellular Biology

BIOL 152 or 153 (4 hrs)
Principles of Organismal Biology

BIOL 412 (3 hrs)
Evolutionary Biology

BIOL 416 (3 hrs)
Cell Structure and Function

BIOL 570 (3 hrs)
Introduction to Biostatistics

BIOL 600 (4 hrs)
Introductory Biochemistry

1 of these 3 courses

BIOL 400 (3 hrs)
Fundamentals of Microbiology

BIOL 408 (3 hrs)
Physiology of Organisms

BIOL 417 (3 hrs)
Biology of Development

NEW (24 hrs)

NO CHANGES!

GENERAL BIOLOGY ELECTIVE AND LAB REQUIREMENTS:

OLD (8 hrs)

NEW (8 hrs)

Taken from BIOL courses numbered 400 or higher, including at least 3 hrs. of lab credit and 2 hrs. of a seminar/topics course

GENETICS REQUIREMENTS:

OLD (14 hrs)

NEW (15 hrs)

BIOL 404 (3 hrs)
Introduction to Genetics

BIOL 404 (3 hrs)
Introduction to Genetics

BIOL 405 (2 hrs)
Laboratory in Genetics

BIOL 405 (2 hrs)
Laboratory in Genetics

BIOL 420 (1 hr)
Seminar, must be taken during final year

BIOL 672 (3 hrs)
Gene Expression

1 of these 3 courses:

BIOL 518 (3 hrs)
Microbial Genetics

BIOL 672 (3 hrs)
Gene Expression

BIOL 688 (3 hrs)
Molecular Biology of Cancer

2 courses, for a total of 6 hours, from a specific list of classes. You can see the list at http://www.kuub.ku.edu/degrees/bs_genetics.shtml. There are 2 new classes on the list: BIOL 518 Microbial Genetics and BIOL 688 Molecular Biology of Cancer. There were 4 classes removed from the list: BIOL 432 Human Behavioral Genetics, BIOL 636 Cytology & Cytogenetics, BIOL 742 Plant Population Biology, and BIOL 768 Plant Molecular Biology.

ORGANISMAL BIOLOGY – B.S.

GENERAL SCIENCE REQUIREMENTS:

OLD (26-28 hrs)

CHEM 184 & 188 (10 hrs)
Foundations of Chemistry I & II

CHEM 622 or 624 (3 hrs)
Fundamentals of Organic Chemistry or
Organic Chemistry I

CHEM 625 (2 hrs)
Organic Chemistry I Lab

MATH 115 or 121 (3-5 hrs)
Calculus I

PHSX 211 & PHSX 212 or
PHSX 114 & PHSX 115 (8 hrs)
General Physics 1 & 2 or
College Physics 1 & 2

NEW (28-29 hrs)

CHEM 184 & 188 (10 hrs)
Foundations of Chemistry I & II

CHEM 622 or 624 (3 hrs)
Fundamentals of Organic Chemistry or
Organic Chemistry I

CHEM 625 (2 hrs)
Organic Chemistry I Lab

MATH 115 & MATH 116 (6 hrs) or
MATH 121 (5 hrs)
Calculus I & II

PHSX 211 & PHSX 212 or
PHSX 114 & PHSX 115 (8 hrs)
General Physics 1 & 2 or
College Physics 1 & 2

GENERAL BIOLOGY REQUIREMENTS:

OLD (24 hrs)

BIOL 150 or 151 (4 hrs)
Principles of Molecular & Cellular Biology

BIOL 152 or 153 (4 hrs)
Principles of Organismal Biology

BIOL 404 (3 hrs)
Introduction to Genetics

NEW (24 hrs)

BIOL 150 or 151 (4 hrs)
Principles of Molecular & Cellular Biology

BIOL 152 or 153 (4 hrs)
Principles of Organismal Biology

BIOL 404 (3 hrs)
Introduction to Genetics

BIOL 412 or BIOL 414 (3 hrs)
Evolutionary Biology or
Principles of Ecology

BIOL 412 (3 hrs)
Evolutionary Biology

BIOL 600 (4 hrs)
Introductory Biochemistry Lectures

BIOL 600 (4 hrs)
Introductory Biochemistry Lectures

ORGANISMAL BIOLOGY REQUIREMENTS:

OLD (15 hrs)

1 of these 2 classes (3 hrs):
BIOL 413 (3 hrs)
History & Diversity of Organisms

BIOL 550 (3 hrs)
Introduction to Systematics

2 of these 3 classes (6 hrs):
BIOL 408 (3 hrs)
Physiology of Organisms

BIOL 416 (3 hrs)
Cell Structure & Function

BIOL 417 (3 hrs)
Biology of Development

2 of the following courses,
including at least 1 course from
each of the following 3 groups (6 hrs)

A full listing off all classes in each of the groups can be found at
http://www.kuub.ku.edu/degrees/bs_organismalbiology.shtml. The following changes have been made to
each group:

Development Group no longer includes BIOL 590 Principles of Embryology or BIOL 604 Physiology of
Plant Growth & Development

Function Group no longer includes BIOL 516 Microbial Physiology and BIOL 524 Molecular Immunology

Diversity Group no longer includes BIOL 664 Vertebrate Biology and BIOL 795 Biology of Amphibians.
It has added BIOL 783 Herpetology and BIOL 794 Mammalogy

NEW (24 hrs)

BIOL 408 (3 hrs)
Physiology of Organisms

BIOL 409 (2 hrs)
Physiology of Organisms Laboratory

BIOL 420 (1 hr)
Seminar, taken during final year

2 of these 3 classes (6 hrs):
BIOL 413 (3 hrs)
History & Diversity of Organisms

BIOL 414 (3 hrs)
Principles of Ecology

BIOL 550 (3 hrs)
Introduction to Systematics

1 of these 2 courses (3 hrs):

BIOL 416 (3 hrs)
Cell Structure & Function

BIOL 417 (3 hrs)
Biology of Development

At least 1 course from each of the following
3 groups (9 hrs)

GENERAL BIOLOGY & LAB REQUIREMENTS:

OLD (13 hrs)

BIOL courses numbered 400 or higher, with at least 4 hours of lab credit and 2 hours of a seminar or topics course

NEW (10 hrs)

BIOL courses numbered 400 or higher with at least 2 hours of lab credit and 1 hours of a seminar or topics course

MICROBIOLOGY—B.A.

GENERAL SCIENCE REQUIREMENTS:

OLD (37-39 hrs)

CHEM 184 & 188 (10 hrs)
Foundations of Chemistry I & II

CHEM 622 or 624 (3 hrs)
Fundamentals of Organic Chemistry or
Organic Chemistry I

CHEM 625 (2 hrs)
Organic Chemistry I Lab

CHEM 626 (3 hrs) or BIOL 600 (4 hrs)
Organic Chemistry II or
Introductory Biochemistry Lab

CHEM 627 (2 hrs) or BIOL 601 (2 hrs)
Organic Chemistry II Lab or
Introductory Biochemistry Lab

MATH 115 & 116 (6 hrs) or
MATH 121 (5 hrs)
Calculus I & II

PHSX 211 & PHSX 212 or
PHSX 114 & PHSX 115 (8 hrs)
General Physics 1 & 2 or
College Physics 1 & 2

BIOL 150 or 151 (4 hrs)
Principles of Molecular & Cellular Biology

NEW (37-38 hrs)

CHEM 184 & 188 (10 hrs)
Foundations of Chemistry I & II

CHEM 622 or 624 (3 hrs)
Fundamentals of Organic Chemistry or
Organic Chemistry I

CHEM 625 (2 hrs)
Organic Chemistry I Lab

MATH 115 & 116 (6 hrs) or
MATH 121 (5 hrs)
Calculus I & II

PHSX 211 & PHSX 212 or
PHSX 114 & PHSX 115 (8 hrs)
General Physics 1 & 2 or
College Physics 1 & 2

BIOL 150 or 151 (4 hrs)
Principles of Molecular & Cellular Biology

BIOL 404 (3 hrs)
Introduction to Genetics

BIOL 405 (2 hrs)
Laboratory in Genetics

MICROBIOLOGY CORE REQUIREMENTS:

OLD (9 hrs)

BIOL 400 (3 hrs)
Fundamentals of Microbiology

NEW (9-10 hrs)

BIOL 400 (3 hrs)
Fundamentals of Microbiology

BIOL 402 (2 hrs)
Fundamentals of Microbiology Lab

BIOL 402 (2 hrs)
Fundamentals of Microbiology Lab

BIOL 516 (3 hrs)
Microbial Physiology

1 of these 2 courses:

BIOL 516 (3 hrs)
Microbial Physiology

BIOL 600 (4 hrs)
Introductory Biochemistry Lectures

BIOL 609 (1 hr)
Current Progress in Microbiology

BIOL 609 (1 hr)
Current Progress in Microbiology

MICROBIOLOGY ELECTIVES AND LAB REQUIREMENTS:

OLD (15 hrs)

NEW (15 hrs)

15 hours worth of courses selected from a specific. You can see the list at
http://www.kuub.ku.edu/degrees/ba_microbiology.shtml.

MICROBIOLOGY—B.S.

GENERAL SCIENCE REQUIREMENTS:

OLD (49-50 hrs)

NEW (49-50 hrs)

CHEM 184 & 188 (10 hrs)
Foundations of Chemistry I & II

NO CHANGES!

CHEM 624 (3 hrs)
Organic Chemistry I

CHEM 625 (2 hrs)
Organic Chemistry I Lab

CHEM 626 (3 hrs)
Organic Chemistry II

CHEM 627 (2 hrs)

MATH 115 & 116 (6 hrs) or
MATH 121 (5 hrs)
Calculus I & II

PHSX 211 & PHSX 212 or
PHSX 114 & PHSX 115 (8 hrs)
General Physics 1 & 2 or
College Physics 1 & 2

BIOL 150 or 151 (4 hrs)
Principles of Molecular & Cellular Biology

BIOL 404 (3 hrs)
Introduction to Genetics

BIOL 570 or MATH 365 or PSYC 300 (3 hrs)
Statistics

BIOL 658 (3 hrs)
Biochemistry I

BIOL 665 (3 hrs)
Biochemistry II

MICROBIOLOGY REQUIREMENTS:

OLD (29 hrs)

BIOL 400 or BIOL 401 (3 hrs)
Fundamentals of Microbiology

BIOL 402 or BIOL 403 (2 hrs)
Fundamentals of Microbiology Laboratory

BIOL 503 (3 hrs)
Immunology

BIOL 504 (2 hrs)
Immunology Laboratory

BIOL 506 (3 hrs)
Pathogenic Microbiology

BIOL 507 (2 hrs)
Pathogenic Microbiology Laboratory

BIOL 512 (3 hrs)
General Virology

BIOL 513 (2 hrs)
Virology Laboratory

BIOL 516 (3 hrs)
Microbial Physiology

BIOL 518 (3 hrs)
Microbial Genetics

BIOL 519 (2 hrs)
Microbial Genetics Laboratory

BIOL 609 (1 hr)
Current Progress in Microbiology

NEW (29 hrs)

BIOL 400 or BIOL 401 (3 hrs)
Fundamentals of Microbiology

BIOL 402 or BIOL 403 (2 hrs)
Fundamentals of Microbiology Laboratory

BIOL 416 (3 hrs)
Cell Structure & Function

BIOL 503 (3 hrs)
Immunology

BIOL 504 (2 hrs)
Immunology Laboratory

BIOL 506 (3 hrs)
Pathogenic Microbiology

BIOL 507 (2 hrs)
Pathogenic Microbiology Laboratory

BIOL 512 (3 hrs)
General Virology

BIOL 513 (2 hrs)
Virology Laboratory

BIOL 518 (3 hrs)
Microbial Genetics

BIOL 519 (2 hrs)
Microbial Genetics Laboratory

BIOL 609 (1 hr)
Current Progress in Microbiology

General Biology Elective Requirements (6 hrs.):

OLD (6 hrs)

A minimum of 6 hours of biology courses numbered above 400

NEW (6 hrs)