

Required Courses, Groups, and Electives for Biology Majors (includes gen. eds.)

Satisfy all 8 boxes on upper half of chart.

Choose 1 of 5 boxes on lower half of chart.

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Hours Needed w/ GPA >2.0

120 total
42 BIOL
42 Upper**

Required Courses

ENGL 1010 Expository Writing (3)
ENGL 1020 Res. & Arg. Writing (3)
COMM 2200 Fund. of Comm.(3)
MATH 1910 Calculus I
BIOL 1000 Intro. to Bio. Major (1)
BIOL 1110 Gen. Bio. I
BIOL 1120 Gen. Bio. II
CHEM 1110 Gen. Chem. I
CHEM 1120 Gen. Chem. II
BIOL 2230 Microbiology
BIOL 3060** Div. Euk. Life (2)
BIOL 3061** Div. Euk. Life Lab (1)
BIOL 3250** Genetics
BIOL 3400** Gen. Ecology
BIOL 4200** Sr. Seminar (1)

Biology Major Elective (one)

ANY BIOL 3000/4000 on this page
BIOL 4280** Research(1-4)!!

History

(choose 2 of these)

HIST 2010 US History I (3)
HIST 2020 US History II (3)
HIST 2030 TN History (3)
HIST 2040 Af Am Hist I(3)
HIST 2050 Af Am Hist II(3)

Extra Math

(choose 1 of these)

MATH 1920 Calculus II
MATH 2050 Prob/Stats(3)
BIOL 4350** Biometry

Physiology Core

(choose 1 of these)

BIOL 4110** Gen. Phys.
BIOL 4210** Cell / Molec.
BIOL 4500** Plant Phys.

Social/Behavioral Science

(choose 2 of these)

AST 2100 Intro Africana Studies (3)
ANTH 2010 Cultural Anthropology (3)
JOUR 1020 Am Media and Soc Institut (3)
ECON 2410 Macroeconomics (3)
2420 Microeconomics (3)
GEOG 2000 Intro Regional Geography (3)
GS 2010 Intro Cross Cultrl Exper (3)
HLTH 1530 Health/Wellness and Lab (3)
PS 1005 Intro American Politics (3)
1010 Intro Global Politics (3)
PSY 1410 General Psychology (3)
RS 2030 Religion and Society (3)
SOC1010 Intro Sociology (3)
2010 Social Problems (3)
WGST 2100 Intro Women's Studies (3)

Organic Chemistry (choose 1)

CHEM 2030 Elements of Organic Chem.
CHEM 3010** Organic Chemistry I

Humanities/Fine Arts

(choose 1 of these)

ENGL 2020 Themes in Lit and Cult (3)
ENGL 2030 Experience of Lit (3)
HUM 2610 Foreign Lit in Tran. (3)

(choose 2 more from below or above)

ANTH 2210 Intro to World Prehist (3)
ART 1030 Orientation to Art (3)
1920 Survey West Art I (3)
DANC 1000 Dance Appreciation (3)
HIST 1010 Western Civ I (3)
1020 Western Civ II (3)
1110 World Civ I (3)
1120 World Civ II (3)
MUHL 1610 World of Music (3)
MUS 1030 Intro to Music (3)
PHIL 1030 Intro to Philosophy (3)
THEA 1030 Theater Appreciation (3)

Teacher Licensure

Biology Concentrations (Choose 1 box below or Teacher Licensure)

Microbiology (10 hr+)

BIOL 3050** Parasitology (3)
BIOL 3210** Enviro. Micro. (3)
BIOL 4080** Mycology
BIOL 4300** Immunology
BIOL 4430** Diagnostic Micro
BIOL 4440** Gen. Virology
BIOL 4450** Molec. Genetics
BIOL 4510** Food/Indust Micr
BIOL 4550** Biotechnology (3)
BIOL 4730** Microbial phys.

Genetics & Biotech (10 hr+)

BIOL 4550** Biotechnology (3)
(choose 1 of these)
BIOL 4450** Molec. Genetics
BIOL 4460** Hum Genetics (3)
(choose 1 of these)
BIOL 4270** Trans Elc. Micro.
BIOL 4290** Scan Elc. Micro.
BIOL 4300** Immunology
BIOL 4450** Molec. Genetics
BIOL 4460** Hum Genetics (3)
BIOL 4510** Food/Ind. Micro.
BIOL 4570** Prin. Toxicol. (3)
BIOL 4720** Animal Develop.
BIOL 4750** Plant Biotech

Physiology (10 hr+)

Other than Phys. Core course chosen above

BIOL 3010** Embryology
BIOL 3020** Comp. Anatomy
BIOL 3340** Hm Path Phys (3)
BIOL 4110** Gen. Phys.
BIOL 4130** Histology
BIOL 4170** Endocrinology (3)
BIOL 4210** Cell & Molec.
BIOL 4300** Immunology
BIOL 4310** Cardio-Renal (3)
BIOL 4440** Gen. Virology
BIOL 4500** Plant Phys.
BIOL 4560** Neurobiology
BIOL 4570** Prin. Toxicol.(3)

Ecology and Org (10 hr+)

BIOL 3500** Evolution (3)
(choose 7-8 hr of these)
BIOL 3020** Comp. Anatomy
BIOL 3040** Entomology
BIOL 3050** Parasitology (3)
BIOL 4080** Mycology
BIOL 4090** Forest Ecology
BIOL 4140** Invert. Zoology
BIOL 4180** Vert. Zoology
BIOL 4220** Ichthyology
BIOL 4330** Biome Analysis
BIOL 4390** Ethology
BIOL 4420** Plant Eco. & Evo.
BIOL 4570** Prin. Toxicol.(3)
BIOL 4580** Marine Biology
BIOL 4590** Prin. Envir. Tox.

Secondary Ed. Minor required
BIOL 4740** Research Meth.(3)
(Satisfies Bio. Major Elective)

(choose 1 of these)
BIOL 3020** Comp. Vert. Anat.
BIOL 4180** Vert. Zoology

(choose 1 of these)
BIOL 3040** Entomology
BIOL 3050** Parasitology (3)
BIOL 4140** Invert. Zoology

(choose 1 of these)
BIOL 4080** Mycology
BIOL 4090** Forest Ecology (3)
BIOL 4420** Plant Eco. & Evo.

** Upper division class
(#) Hours, if not 4 hours
!! Permission required