B.S. Cell & Molecular Biology (CMB) Track

START HERE

LAY THE GROUNDWORK

Foundational BIO courses:
Molecules, Genes, & Cells (BIO 110)
Pop, Ecosys, & Global Change (BIO 130)
Data Literacy (BIO 220)

Other foundational courses:
Chemistry through CHM 120

CUSTOMIZE YOUR PATHWAY

CHOOSE 2 Track-specific courses:
Cell Biology (BIO 300)
Microbiology (BIO 301)
Biochemistry of the Cell (BIO 303)
Genetics OR Human Genetics (BIO 310 OR 312)

SPECIALIZE, EXPLORE, & DIVERSIFY

CHOOSE 3-5 BIO electives:
Science Communication (BIO 499; WR)

Any other BIO courses numbered 200+

STUDY HOW ORGANISMS FUNCTION

CHOOSE 1 Organismal course:
Form & Function of Living Sys (BIO 120),
Plant Physiology (BIO 321),
Human Physiology (BIO 322), OR
Animal Physiology (BIO 447)

LEARN BY DOING

CHOOSE a Capstone Experience:
Research (BIO 508) OR
Thesis (BIO 510)

Seminar (BIO 075)

B.S. Biomedical Sciences (BMS) Track

START HERE

LAY THE GROUNDWORK

Foundational BIO courses:
Molecules, Genes, & Cells (BIO 110)
Pop, Ecosys, & Global Change (BIO 130)
Data Literacy (BIO 220)

Other foundational courses:
Chemistry through CHM 120

CUSTOMIZE YOUR PATHWAY

CHOOSE 2 Track-specific courses:
Biochemistry of the Cell (BIO 303)
Genetics OR Human Genetics (BIO 310 OR 312)
Human Anat Sys OR Comp Anat (BIO 326 OR 327)
Human OR Animal Physiology (BIO 322 OR 447)

SPECIALIZE, EXPLORE, & DIVERSIFY

CHOOSE 3-5 BIO electives:
Science Communication (BIO 499; WR)

Any other BIO courses numbered 200+

STUDY HOW ORGANISMS FUNCTION

CHOOSE 1 Organismal course:
Form & Function of Living Sys (BIO 120),
Plant Physiology (BIO 321),
Human Physiology (BIO 322), OR
Animal Physiology (BIO 447)

LEARN BY DOING

CHOOSE a Capstone Experience:
Internship (BIO 503),
Research (BIO 508), OR
Thesis (BIO 510)

Seminar (BIO 075)

B.S. Environmental & Conservation Biology (ECB) Track

START HERE

LAY THE GROUNDWORK

Foundational BIO courses:
Molecules, Genes, & Cells (BIO 110)
Pop, Ecosys, & Global Change (BIO 130)
Data Literacy (BIO 220)

Other foundational courses:
One Chemistry course
(CHM 110, 111, or 118)

CUSTOMIZE YOUR PATHWAY

CHOOSE 2 Track-specific courses:
One Environmental Bio course:
Ecology (BIO 340) OR Environmental Systems (BIO 343) OR Field Ecology (BIO 345)

One Conservation Bio course:
Cons Genetics (BIO 313) OR Cons Bio (BIO 348) OR Landscape Eco & Cons (BIO 431)

SPECIALIZE, EXPLORE, & DIVERSIFY

CHOOSE 5-6 BIO electives:
Science Communication
(BIO 499; WR)

Any other BIO courses numbered 200+

STUDY HOW ORGANISMS FUNCTION

CHOOSE 1 Organismal course:
Form & Function of Living Sys (BIO 120),
Plant Physiology (BIO 321)*,
Human Physiology (BIO 322), OR
Animal Physiology (BIO 447)*

** Plant or Animal Physiology is highly recommended for this track*

LEARN BY DOING

CHOOSE a Capstone Experience:
Internship (BIO 503),
Research (BIO 508), OR
Thesis (BIO 510)

Seminar (BIO 075)

B.S. Integrative Biology (IB) Track

START HERE

LAY THE GROUNDWORK

Foundational BIO courses:
Molecules, Genes, & Cells (BIO 110)
Pop, Ecosys, & Global Change (BIO 130)
Data Literacy (BIO 220)

Other foundational courses:
One Chemistry course
(CHM 110, 111, or 118)

CUSTOMIZE YOUR PATHWAY

No track-specific courses:
Work with your advisor to make a plan that aligns with your goals and interests.

SPECIALIZE, EXPLORE, & DIVERSIFY

CHOOSE 7-8 BIO electives:
Science Communication
(BIO 499; WR)

Any other BIO courses numbered 200+

STUDY HOW ORGANISMS FUNCTION

CHOOSE 1 Organismal course:
Form & Function of Living Sys (BIO 120),
Plant Physiology (BIO 321),
Human Physiology (BIO 322), OR
Animal Physiology (BIO 447)

LEARN BY DOING

CHOOSE a Capstone Experience:
Internship (BIO 503),
Research (BIO 508), OR
Thesis (BIO 510)

Seminar (BIO 075)

B.A. Biology

START HERE

LAY THE GROUNDWORK

Foundational BIO courses:
Molecules, Genes, & Cells (BIO 110)
Pop, Ecosys, & Global Change (BIO 130)

Data Literacy (BIO 220)
OR
Statistics (MTH 120)

CUSTOMIZE YOUR PATHWAY

No track-specific courses:
Work with your advisor to make a plan that aligns with your goals and interests.

SPECIALIZE, EXPLORE, & DIVERSIFY

CHOOSE 5-6 BIO electives:
Science Communication (BIO 499; WR)

Any other BIO courses numbered 200+

STUDY HOW ORGANISMS FUNCTION

CHOOSE 1 Organismal course:
Form & Function of Living Sys (BIO 120),
Plant Physiology (BIO 321),
Human Physiology (BIO 322), OR
Animal Physiology (BIO 447)

LEARN BY DOING

CHOOSE a Capstone Experience:
Independent Study (BIO 501),
Internship (BIO 503),
Research (BIO 508), OR
Thesis (BIO 510)

Seminar (BIO 075)

The New Biology Major: Tracks Comparisons

	B.S. TRACKS				B.A MAJOR
	CMB TRACK	**BMS TRACK**	**ECB TRACK**	**IB TRACK**	**BIO**
100 LEVEL	Foundational courses (BIO 110 + BIO 130)				
ORGANISMAL	Choose one Organismal Biology course (BIO 120, BIO 321, BIO 322, or BIO 447)				
200 LEVEL	Data Literacy (BIO 220)				BIO 220 or MTH 120
TRACK-SPECIFIC REQUIREMENTS *Choose two*	Cell Bio (BIO 300) Microbio (BIO 301) Biochem (BIO 303) Genetics (BIO 310/12)	Biochem (BIO 303) Genetics (BIO 310/12) Physiol (BIO 322/447) Anatomy (BIO 326/327)	Environmental Bio (BIO 340 or 343 or 345) Conservation Bio (BIO 313 or 348 or 431)	None	
WR COURSE	Sci Comm (BIO 499) OR Bio Elective (if another WR is chosen)				
CAPSTONE *+ BIO 075 Seminar*	Research (BIO 508) or Thesis (BIO 510)	Internship (BIO 503) or BIO 508 or BIO 510			Indep. study (BIO 501) or BIO 503, 508 or 510
CHEMISTRY	CHM 110 + 115 + 120 OR CHM 118 + 120 OR CHM 111 + 115 + 120		CHM 110 OR CHM 111 OR CHM 118		None
ELECTIVES	Additional BIO Electives are used to satisfy remaining major requirements. Two 2-cr courses can be combined to count as an elective. BIO courses cannot be used to "double-dip" and count as more than one major requirement.				
# OF COURSES	13 (≥3-cr) BIO+CHM courses (or approved substitutions). All B.S. students must complete either BIO 508, BIO 510, or a 400-level lab course.				10 (≥3 cr) BIO courses (or approved subst.)