

# CCNY Biology Undergraduate Student Advising Form

Complete this form, email it to your advisor, and print the first page to bring to your advising meeting.

Course registration is blocked by default prior to advising. CCAPP will un-block registration after receiving your signed advising form.

Name: \_\_\_\_\_

CCNY Email Address: \_\_\_\_\_

CUNY EMPLID (8 digits): \_\_\_\_\_

Faculty Advisor's Name: \_\_\_\_\_

## Required courses for a CCNY B.S. in Biology

Use the drop-down list(s) for each course. **All required BIO courses and all BIO course prerequisites must be passed with a grade of C or better.**

Course	Name	Cr	Grade
BIO 10100	Biological Foundations I	4	
BIO 10200	Biological Foundations II	4	
BIO 20600	Introduction to Genetics	4	
BIO 20700	Organismic Biology	4	
BIO 22800	Ecology & Evolution	4	
BIO 22900	Cell & Molecular Biology	4	
CHEM 10301	General Chemistry I	4	
CHEM 10401	General Chemistry II	4	
CHEM 26100	Organic Chemistry I	3	
	† General Physics I	4	
	† General Physics II	4	
	‡ Calculus		
	‡ Calculus		
	‡ Calculus and/or Stats	4	

†PHYS 20300 & 20400 are preferred. PHYS 20700 & 20800 are calculus-based.

‡Acceptable MATH sequences: (preferred: 20500,20900) or (20100,20900)

or (20100,21200\$,21300\$) or (20100,21200\$,17300)

§MATH 21200/21300 were previously numbered MATH 20200/20300.

## Biology elective course requirement

Fill in the requested information for all elective courses that count towards the biology major. List all courses you have taken, are currently taking, and plan to take in the future. At least 15 elective credits are required. Courses that count as biology electives are listed on subsequent pages of this form.

Course	Name	Cr	Grade

## Other requirements to graduate in Biology

**CCNY Credit Requirement:** Earn at least 120 credits

**CCNY Residency Requirement:** Earn at least 80 credits at CCNY (not transferred from another institution) or complete the last 30 credits of the degree at CCNY

**Biology Credit Requirement:** Earn at least 39 credits in BIO (24 of these 39 BIO credits are from required BIO courses)

**Biology Residency Requirement:** Earn at least 24 credits from CCNY BIO courses (not transferred or taken in another CCNY department)

**Biology GPA Requirement:** A 2.0 GPA in Biology courses, including non-BIO courses that count towards the Biology Major elective requirement, is required to remain in the major and to graduate.

Faculty Advisor Signature

Date

[To be signed after advising & before registration each semester.]

All information on this form is subject to change.  
Information in the CCNY Bulletin supersedes information  
on this form when discrepancies exist.

## Course Record & Plan

Under the appropriate school term and year that you select, provide the name (e.g., Bio 10100), number of credits, and grade for every CCNY course you have taken or are taking, then list all courses you plan to take before graduation. (Include courses taken by ePermit while at CCNY using their CCNY equivalent and marking with an asterisk, e.g. "Chem 26100\*\*")

Courses	Cr	Grades	Courses	Cr	Grades
Term:			Term:		
Term:			Term:		
Term:			Term:		
Term:			Term:		
Term:			Term:		
Term:			Term:		

Head Biology Major Advisor Signature—GradCheck Date  
This student has fulfilled all requirements for the Biology Major

[To be signed during final semester.]

Biology Majors must satisfy all of CCNY's General Education requirements in addition to the requirements for the major.  
The Science Advising Office (CCAPP) is responsible for compliance with graduation requirements not related to the Biology Major.

### Required courses<sup>0</sup> for all Biology majors

Course	Name	Cr	Prerequisites <sup>1</sup>	Corequisites <sup>2</sup>	Note	Fee	Terms Offered <sup>3</sup>			
							Fa	Wi	Sp	Su
BIO 10100	Biological Foundations I	4	MATH 19000			\$10	A		A	A
BIO 10200	Biological Foundations II	4	BIO 10100			\$10	A		A	A
BIO 20600	Introduction to Genetics	4	BIO 10100 & BIO 10200				A		A	A
BIO 20700	Organismic Biology	4	BIO 10100 & BIO 10200	CHEM 10301 & MATH 19500 & ENGL 21003 <sup>3*</sup>		\$30	A		A	A
BIO 22800	Ecology & Evolution	4		BIO 20600 & (MATH 17300 or MATH 20900)	4	\$10	A		A	
BIO 22900	Cell & Molecular Biology	4	BIO 20600			\$10	A		A	S
CHEM 10301	General Chemistry I	4	MATH 19500 with grade of C or higher			\$30	A		A	A
CHEM 10401	General Chemistry II	4	CHEM 10301 with grade of C or higher			\$30	A		A	A
CHEM 26100	Organic Chemistry I	3	CHEM 10401 with grade of C or higher				A		A	
PHYS 20300 <sup>†</sup>	General Physics I	4	MATH 19500			\$10	A		A	A
PHYS 20400 <sup>†</sup>	General Physics II	4	PHYS 20300			\$10	A		A	A
MATH 20500 <sup>‡</sup>	Elements of Calculus	4	Placement or MATH 19500 with grade of C or higher				A		A	A
MATH 20900 <sup>‡</sup>	Elements of Calc & Stats	4	Placement or MATH 20500 with grade of C or higher				A		A	A

<sup>0</sup> Required BIO courses must be passed with grade of C or better. Other required courses must be passed with a D or better (but see footnote 1)

<sup>1</sup> BIO prerequisites must be passed with grade of C or better. Other prereqs for BIO courses must be passed with D or better. Consult Chem/Math/Physics for minimum grades for prerequisites for their courses.

<sup>2</sup> May be taken at same time (if taken before, see footnote 1)

<sup>3</sup> Fa = Fall, Wi = Winter, Sp = Spring, Su = Summer; A = Always, S = Sometimes

<sup>4</sup> If MATH 20900 or 17300 not taken as a pre- or coreq, then MATH 21200<sup>§</sup> can be taken as a prereq.

<sup>†</sup> Acceptable PHYS sequences: (most common: 20300,20400) or (20700,20400) or (20700,20800)

<sup>‡</sup> Acceptable MATH sequences: (most common: 20500,20900) or (20100,20900) or (20100,21200<sup>§</sup>,21300<sup>§</sup>) or (20100,21200<sup>§</sup>,17300)

<sup>§</sup> MATH 21200 was previously numbered MATH 20200. MATH 21300 was previously numbered MATH 20300.

<sup>3\*</sup> If transferring from another college or major, an equivalent second English course can serve as the prerequisite

### Honors & Independent Study courses (These courses count towards biology major credit and biology residency requirements.)

Course	Name	Cr	Prerequisites <sup>1</sup>	Corequisites <sup>2</sup>	Note	Fee	Terms Offered <sup>3</sup>			
							Fa	Wi	Sp	Su
BIO 30100	Honors I	3	BIO 10100, BIO 10200, & 20600	Two of these: BIO 20700, BIO 22800, BIO 22900	5,6		A		A	S
BIO 30200	Honors II	3	BIO 30100		5,6		A		A	S
BIO 30300	Honors III	3	BIO 30200	See note 7 below.	5,6,7		A		A	S
BIO 31000	Independent Study	1-3	BIO 20600	Two of these: BIO 20700, BIO 22800, BIO 22900	6,8		A		A	S

<sup>1</sup> Must be passed with grade of C or better.

<sup>2</sup> Corequisite: May be taken at same time (if taken before, see footnote 1).

<sup>3</sup> Fa = Fall, Wi = Winter, Sp = Spring, Su = Summer; A = Always, S = Sometimes

<sup>5</sup> A minimum GPA of 3.5 in Biology Dept. courses and 3.0 overall is required for Honors.

<sup>6</sup> Admission to Honors or Independent Study is by application to the Honors and Independent Study faculty committee; applications are due 3 weeks before the start of each term.

<sup>7</sup> A maximum of 6 credits from Honors courses may count towards biology elective credits. BIO 30300 therefore does not fulfill biology elective credit requirements, but it does count towards the total needed for graduation.

<sup>8</sup> A GPA of 3.0 in biology or better is required for Independent Study. BIO 31000 can be taken multiple times, but a maximum of 6 credits may count towards biology elective credits. Credits above 6 still count towards the total needed for graduation.

**Elective courses<sup>1</sup> that count towards the Biology Major credit requirement and the Bio Major residency requirement**
**Terms Offered<sup>3</sup>**

Course	Name	Cr	Prerequisites <sup>1</sup>	Corequisites <sup>2</sup>	Note	Fee	Fa	Wi	Sp	Su
BIO 31100-999	<b>Selected Topics in Biology</b>	1-4	Determined by instructor				S		S	
BIO 33000	<b>Survey of the Vertebrates</b>	3	BIO 10200		9		S		S	
BIO 34500	<b>Botany</b>	4	BIO 10200 & CHEM 10301						S	
BIO 35000	<b>Advanced Microbiology</b>	4	BIO 22900			\$25			S	
BIO 35100	<b>Anthropological Genomics</b>	3		BIO 22800 or ANTH 20300			S		S	
BIO 35200	<b>Introduction to Immunology</b>	3	BIO 22900				S		S	
BIO 35400	<b>Introduction to Neurobiology</b>	3	BIO 20700 or BIO 22900				S		S	
BIO 37500	<b>Developmental Biology</b>	3	BIO 22900				S	S	S	S
BIO 37900	<b>Developmental Neurobiology</b>	3	BIO 22900				S		S	
BIO 38000	<b>Eukaryotic Genetics</b>	4	BIO 22800 & BIO 22900				S		S	S
BIO 40100	<b>Cardiovascular, Renal &amp; Respiratory Physiol.</b>	4	BIO 20700 or Instructor Permission				S		S	
BIO 41000	<b>Cell Development &amp; Cellular Senescence</b>	3	BIO 22900				S		S	
BIO 41200-99	<b>Seminars on Selected Topics in Biology</b>	1-4	Determined by instructor				S		S	
BIO 41404	<b>Brain Plasticity and Disease</b>	3	BIO 20700				S		S	
BIO 42000	<b>Virology</b>	3	BIO 22900				S		S	
BIO 42500	<b>Cancer Biology</b>	3	BIO 22900				S		S	
BIO 44300	<b>Insect Ecology</b>	4	BIO 22800 or Instructor Permission				S			
BIO 44900	<b>Biology of Birds</b>	4		BIO 20700 or BIO 22800	9		S		S	
BIO 45000	<b>Symbiosis</b>	3		BIO 22900			S		S	
BIO 45100	<b>Movement &amp; Muscle</b>	3	BIO 20700 or BIO 35400 or Instructor Permission				S		S	
BIO 45300	<b>Conservation Biology</b>	3	BIO 22800		9		A		A	
BIO 45400	<b>Sensory Perception</b>	3	BIO 20700 or BIO 22900				S		S	
BIO 45500	<b>Advanced Ecology</b>	3	BIO 22800 & (MATH 20900 or MATH 17300 or MATH 21200 <sup>§</sup> )		9		A		A	
BIO 45800	<b>Biogeography</b>	3	BIO 22800 or Instructor Permission				S		S	
BIO 46000	<b>Animal Behavior</b>	3	BIO 10200				S	S	S	
BIO 46600	<b>Plant Physiology</b>	3	BIO 20700 or BIO 22900				S		S	
BIO 46800	<b>Comparative Physiological Ecology</b>	3	BIO 20700				S		S	
BIO 48000	<b>Current Topics in Microbiology</b>	3	BIO 22900 or Instructor Permission				S		S	
BIO 48100	<b>Introduction to Epigenetics</b>	3	BIO 20600				A		S	
BIO 48300	<b>Laboratory in Biotechnology</b>	5	BIO 22900 & Instructor Permission			\$30		S		
BIO 48500	<b>Evolution</b>	3	BIO 22800 or Instructor Permission				S		S	S
BIO 48800	<b>Tropical Ecology &amp; Conservation</b>	4	BIO 10200 & Instructor Permission		10	\$1,550		S		S

<sup>1</sup> BIO prerequisites must be passed with grade of C or better. Other prerequisites for BIO courses and elective courses must be passed with D or better.

<sup>2</sup>Corequisites may be taken at same time (if taken before, see footnote 1 above).

<sup>3</sup>Fa = Fall, Wi = Winter, Sp = Spring, Su = Summer; A = Always, S = Sometimes

<sup>9</sup>Taught in the American Museum of Natural History. Budget appropriate travel time between classes.

<sup>10</sup>Study abroad course. Course fee includes most meals & all accommodation but not air travel. Fee subject to change.

<sup>§</sup>MATH 21200 was previously numbered MATH 20200.

### Electives<sup>1</sup> that count towards Bio major credit requirement but NOT towards the Bio residency requirement

### Terms Offered<sup>3</sup>

Course	Name	Cr	Prereqs <sup>2</sup>	Note	Fee	Fa	Wi	Sp	Su
CHEM 32002	Biochemistry I	3	(CHEM 26100 & CHEM 26300 with grade of C or better) or (CHEM 26100 with grade of C or better & Inst. Perm)	11		S		S	
CHEM 44000	Journey to the Center of the Cell	3	CHEM 32002 or Instructor Permission					S	
PHIL 34905	Biomedical Ethics	3	One semester of philosophy or Instructor Permission					S	
PHYS 42200 <sup>4</sup>	Biophysics	3	1 yr. math & 1 yr. physics					A	
PHYS 42300 <sup>4</sup>	Biophysics in Applications	3	1 yr. math & 1 yr. physics			S			
SCI 28000	Bioinformatics & Biomolecular Systems	3	1 yr. biology & 1 yr. chemistry			S		S	

<sup>1</sup> Elective courses must be passed with grade of D or better.

<sup>2</sup> Consult Chem/Physics for minimum grades for prerequisites.

<sup>3</sup> Fa = Fall, Wi = Winter, Sp = Spring, Su = Summer; A = Always, S = Sometimes

<sup>4</sup> Only one of Phys 42200 & Phys 42300 can be taken for Biology elective credit

<sup>11</sup>Also called CHEM 45902; cannot take one course if you have taken the other.

### Elective courses that DO NOT count towards the biology credit requirement NOR the biology residency requirement | Terms Offered<sup>3</sup>

Course	Name	Cr	Prereqs <sup>1</sup>	Note	Fee	Fa	Wi	Sp	Su
<b>BIO 32100</b>	<b>Physiological Processes</b>	3	<i>For Bioengineering Majors</i>						
BIO 24700	Anatomy & Physiology I	4	BIO 10100 or Departmental Permission		\$20	A		A	A
BIO 24800	Anatomy & Physiology II	4	BIO 24700		\$25	A		A	A
BIO 24900	Microbiology for Healthcare Professionals	4	BIO 10100 & CHEM 10301 & Departmental Permission			A		A	

<sup>1</sup>Prerequisite: Must have completed the course and passed with grade of C or better.

<sup>3</sup>Fa = Fall, Wi = Winter, Sp = Spring, Su = Summer; A = Always, S = Sometimes