



DEPARTMENT *of* BIOLOGY

THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

Department of Biology

Dr. Gidi Shemer

People you want to know

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People you want to know

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Study abroad

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Biology major degrees

- **Bachelors of Arts**

- Designed to provide greater flexibility in meeting broad student interests
- Double major or additional minors

- **Bachelors of Science**

- Rigorous and interdisciplinary
- Minor in chemistry

- **Bachelors of Science
Quantitative Biology Track**

Biology and numbers?
System Biology?

I love it!!

- **UNC-BEST**

- Graduates (BA or BS)
eligible for high school
teaching license

BA

BS

QR (math)

1

2

(m231 + m232/c110/c116/s155/s215)

Gateway

BIOL 101+L; CHEM 101+L

same as BA

Core

BIOL 201; 202; 205

same as BA

Organismal

BIOL _7_/L

same as BA

Biology >205

3 (1 with a lab)

1>400

4 (2 with a lab)

2>400

Other sci.

5

8

120

123

Other Science Requirements

BA

CHEM 102/L

4 allied sci.

BS

CHEM 102/L

CHEM 241/L- Analytical

CHEM 261- organic I

CHEM 262/L- Organic 2

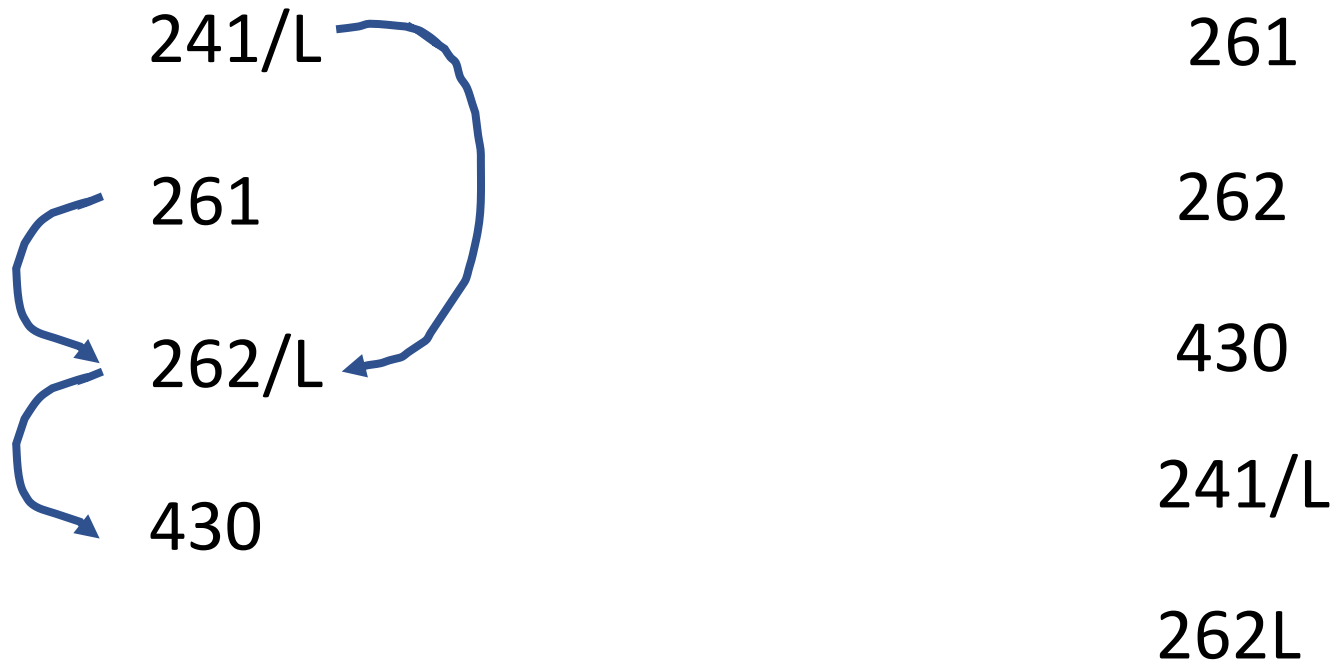
PHYS 114/118

PHYS 115/119

2 allied sci.

The chemistry sequence

AKA- why do I need an analytical chemistry lab?.....



Med schools and 241/L +262L

What about two chemistry classes in one semester?

Suggested plan for bio BS

Katie, a premed major, planning to go to med school immediately after college (come speak with Dr. Shemer about a **gap year!**)

Fr	Fall		Chem 101/L		Math 231
	Spring	Biol 101/L	Chem 102/L		
So	Fall	202	Chem 241/L		
	Spring	205	Chem 261		
Jr	Fall		Chem 262/L	Phys 114	Stor 155
	Spring	252/L	Chem 430	Phys 115	
Sr	Fall	Organ/L		400 Bio elec.	
	Spring	201		Bio w/L	

Suggested plan for bio BS

Note the chem sequence. This might be a better option for those who are lagging behind in chem (e.g. Tr students)

Fr	Fall		Chem 101/L		Math 231
	Spring	Biol 101/L	Chem 102/L		
So	Fall	202	Chem 261		
	Spring	205	Chem 262		
Jr	Fall		Chem 430	Phys 114	Stor 155
	Spring	252/L		Phys 115	
Sr	Fall	Organ/L	Chem 241/L	400 Bio elec.	
	Spring	201	Chem 262L	Bio w/L	

Suggested plan for bio BS

Joe- plans on doing research related to animals or considers a conservation biology career

Take 201 before 202, if possible

252/L and 430 are NOT necessarily your choices of bio electives

Organismal w/L

279/L (if transferred or through AP)

7 /L (e.g. 278/L; 474/L)

422/L ; 441/L; 451/L

Do not postpone your organismal biology to the final semester

Research

Research info session- Nov 5, 5 pm, Wilson 107

395 X 1 (one full semester) = Bio elective

395 X 2 (two full semesters) = Bio elective w/L (**instead** of an elect.)

692H (Honors thesis) can serve as the second research semester

BS Quantitative Biology (Qbiol)

101/L

Chem 101/L

201

Chem 102/L

202

Chem 261

205

Bio w/L - QBiol

Phys 114/118

Bio w/L

Phys 115/119

Bio elec - QBiol

Bio elec - QBiol

Math 231- 233

Bio elec

Stor

Comp sci.

2 Allied sci.

How do I search for courses?

<http://bio.unc.edu/>

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Course Offerings

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View, instead, the list of courses offered in a specific semester:

[Spring 2019](#), [Summer 2019](#), [Fall 2019](#) or [Spring 2020](#)

Search by Course Number or Topic:

COMP 555: Bioalgorithms

3 credits | Prerequisites: COMP 401 & 410; MATH 231, 553 or BIOL 525 | [QBiol](#)

53: First Year Seminar: Topics in Biotechnology

3 credits | First year seminar; Does not count for the major

[Sample Syllabus](#)

62: First Year Seminar: Mountains Beyond Mountains: Infectious Disease in the Developing World

3 credits | Does not count for the major

[Sample Syllabus](#)

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Cell Biology, Physiology, and Disease

Number	Course	Instructors	Prerequisites	Credit hours	Comments
455	Behavioral Neuroscience	Burmeister	205	(3)	
252	Human Anatomy and Physiology	Garland; Shemer	101; co-req 252L	(3)	
252L	Human A&P Lab	Alexander	101L; co-req 252	(1)	
253	Advanced Human Anatomy and Physiology	Johnson	252; co-req 253L	(3)	Does not count for the major
253L	Advanced Human A&P Lab	Johnson	252L; co-req 253	(1)	Does not count for the major
402	Infectious Disease in the Developing World	Duronio & Peifer	202 & 205	(3)	
426	Biology of Blood Diseases	Church	205	(3)	
445	Cancer Biology	Shemer	205	(3)	
447	Advanced Cell Biology	A. Jones & P. Maddox	205 (C+ or higher); co-req 447L	(3)	
447L	Advanced Cell Biology Lab	A. Jones & P. Maddox	205; co-req 447	(1)	
449	Introduction to Immunology	Garland	205	(3)	
451	Comparative Physiology	Hedrick & Kier	101/L; phys114/118; phys115/119	(3)	Counts as organismal when 451 & 451L are completed
451L	Comparative Physiology lab	Hedrick & Kier	Pre- or co- 451	(1)	
490-1	Biology of Aging	Ahmed		(3)	
490-3	Sex Differences in Human Disease	Conlon	205	(3)	
639-1	Plant Cell Biology	Nimchuk	Permission of the instructor	(2)	

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Physiology, Microbiology, and Disease

Number	Course	How often	Number of students/year
252/L	Human Anatomy and Physiology /Lab	Every semester	950
253/L	Advanced Human Anatomy and Physiology /Lab	Spring	90
402	Infectious Disease in the Developing World	Every other Spring	35
422/L	Microbiology/Lab	Fall	70
424	Microbial Ecology	Every other Fall	20
424	Microbial Ecology	Every other Fall	20
445	Cancer Biology	Spring	35 (70 every other spring)
449	Immunology	Spring	New
451/L	Comparative Physiology/Lab	Spring	80-90

Genetics, Molecular Biology and Biochemistry

Number	Course	How often	Number of students/year
202H	Molecular Biology and Genetics- Honors	Fall	
423/L	Laboratory Experiments in Genetics	Spring	40
425	Human Genetics	Fall	40
427	Human Diversity and Population Genetics	Fall	20-25
430	Introduction to Biochemistry	Every semester	340
431	Molecular Biology	Fall	20



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The Biology peer mentoring/SI program

Free mentoring offered by the Biology department, based on undergraduates who excelled in **your specific section**

BIOL 101, 201, 202, 205, 252