

# Biological Sciences Student Guide 2020-2021



**DEPAUL  
UNIVERSITY**  
COLLEGE OF SCIENCE AND HEALTH  
*Department of Biological Sciences*



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Facebook Group: DePaulBio



Twitter and Instagram: @depaulbiodept



LinkedIn Group: DePaul University Department of Biological Sciences

*~For more information, please visit: <http://go.depaul.edu/biology~>*

## Table of Contents

Introduction	3
Contacting Us	3
Department Newsletter: The Niche	3
Cover Photo Captions	3
Faculty and Staff Contact Information	4
Outline of Biology Curriculum	5
Experiential Learning	5-6
Additional Graduation Requirements	6
Class Standing	6
Basic Timeline for Entering Students	7
Math Placement	8
Registering & Waitlist Procedures	8
Textbooks & I-Clickers	8
2020-21 Biology Course Offerings by Quarter	9
Biology Minors	9
Required Biology Courses by Concentration	10
Major Field Course List: all prerequisites must be passed with C- or better	11
Getting Involved...	12
Student Groups	12
Research Opportunities	12
Pre-Health Advising	12
Transferring Credits at DePaul University	13
Transfer Students	13
Transferring Courses into DePaul	13
AP Credit from High School	13
2020-21 Course Modalities	14
Academic Support Resources	15
Supplemental Instruction and Tutoring for Biological Sciences Students	15
The Academic Success Center	15
University Counseling Services	15
Email Etiquette 101	16
THE SENIOR “TO-DO” LIST FOR GRADUATION - 2020/2021	17
Autumn Quarter 2020 Seminar Series	18

## Introduction

Welcome to the Biological Sciences Student Guide! This guide is intended to aid Biology students (both majors and minors) to successfully carry out their programs. We have tried to include a lot of the information students would find useful in scheduling their courses, deciding on electives to take, and thinking about their Biology degrees in the context of larger academic and career goals. Since there are always ongoing changes and last-minute substitutions, we apologize in advance for any errors or mistakes that are in the booklet. Please let us know of any errors you find, as well as any additional types of information you would like us to include. Our goal is to make sure every student has access to all of the information needed to complete our program and to help students succeed in their academic careers.

## Contacting Us

**Main Office:** McGowan North, room 118

**Phone:** 773-325-7595

**Hours:** Monday-Friday, 9-5pm

## Academic Advising

Be sure to meet with your academic advisor at least once a quarter to ensure you are on track for completing the Biology major or minor at your desired graduation time. If you do not know who your academic advisor is, please check your BlueStar account through Campus Connect. Declared Biological Sciences majors will meet with the Departmental Academic Advisor, Jaimie Engle (except for Pathways Honors Students.) **Pathways Honors Students** will meet with Pathways Advisors, Lindsey Burdick or Lauren Paez in the CSH Advising Office. Appointments can be made through BlueStar, by visiting the office, or by calling the front desk.

## Department Newsletter: The Niche

The Niche is the DePaul Department of Biological Sciences newsletter. We hope to present you with information about our future plans and programs, our faculty, students, staff, alumni, and all the activities that make our department such an exciting community to be a part of. We are anxious to share news with you and we hope you find our newsletter both useful and informative. You can find our newsletter here: <https://csh.depaul.edu/academics/biological-sciences/about/Pages/niche-newsletter.aspx>

## Cover Photo Captions

**(Top Left):** BIO Students attend Midwest Ecology & Evolution Conference (MEEC). Read about their research below!

Jonathan Allen (BIO: with Kenshu Shimada). A marine bonebed of the Upper Cretaceous Niobrara Chalk, western Kansas.

Jessica Barton (BIO: with Kattie Morris, Dennis Merritt, Seth Magle, and Jalene LaMontagne). Does urbanization influence population trends of European starlings and their relationships with cavity-nesting birds?

Isaac Bruns (BIO: with Timothy Sparkes). Host-specificity of *Posthodiplostomum* parasites in sympatry and potential spillover effects.

Roberto Cucalon (BIO: with Windsor Aguirre and Jalene LaMontagne). Is white spruce population genetic structure related to mast seeding?

Cristian Corona (BIO: with Abigail Leeper and Jalene LaMontagne). Eastern spruce budworm defoliation of white spruce over balsam fir in northern Wisconsin.

Timothy Cronin (BIO: with Timothy Sparkes). Parasite infection, host predation, and transmission in a complex habitat.

Daniela Garza (BIO: with Bruce Schumacher and Kenshu Shimada). Fossil marine vertebrates from the Juana Lopez Member of the Upper Cretaceous Carlile Shale in southeastern Colorado

Riley Hacker (BIO: with Kenshu Shimada). An ichthyodectiform fish (Osteichthyes: Actinopterygii) from the Arlington Member (mid-Cenomanian) of the Upper Cretaceous Woodbine Formation in Texas.

Dana Hundrieser (BIO: with Kenshu Shimada). Marine vertebrate fauna of the Upper Cretaceous Fairport Chalk in Russell County, Kansas.

Alexandra Krak (BIO: with Kenshu Shimada). On the dentition of the extinct megamouth shark, *Megachasma applegatei*, from the late Oligocene-early Miocene of southern California, U.S.A.

Andres Lafuente S. (BIO: with Kenshu Shimada). Pectoral fin radials in lamniform sharks (Elasmobranchii: Lamniformes) with special reference to their segmentation patterns in lamnid taxa.

Abigail Leeper (BIO: with Jalene LaMontagne). Mast seeding and a spruce budworm outbreak: a lesson in peer pressure.

Maria Jazmin Rios (BIO: with Seth Magle and Jalene LaMontagne). The rat wins the race? Spatio-temporal patterns of brown rat populations in the Chicago.

Kristin Staub (BIO: with Windsor Aguirre). Correlation between altitude and morphological variation of fishes in Andean mountain streams.

Myles Walsh (BIO: with Kenshu Shimada). Examination of torso morphology in extant terrestrial amniotes to infer the body morphology of quadrupedal non-avian dinosaurs.

**(Top Middle):** A photograph of the RNA lab for Dr. Kipp's lab research. Research in the Kipp laboratory spotlights hormone signaling and gene regulation in the regulation of ovary development in the mouse.

**(Top Right):** Dr. Shimada photographed with the tooth of the extinct shark, *Otodus megalodon*. Dr. Shimada recently appeared in journals and news articles discussing the enormous tooth size of the shark. Dr. Shimada is a paleobiologist, with a specialty in a group of sharks known as lamniforms.

## Faculty and Staff Contact Information

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# Outline of Biology Curriculum

## All Biology Majors Have the Following Requirements:

### Liberal Studies Requirements (differs from University Honors Requirements):

- 2 Composition Courses (WRD 103 and 104)
- 2 Freshman Seminar Courses (LSP110/111 and LSP 112)
- 1 Sophomore Multicultural Seminar Course (LSP 200)
- 1 Experiential Learning Course\*
- 1 Senior Capstone Course (BIO 395)
- 3 Arts & Literature Courses
- 2 Philosophical Inquiry Courses
- 2 Religious Dimensions Courses
- 3 Social, Cultural and Behavior Inquiry Courses
- 2 Historical Inquiry Courses

### Biological Sciences Core

- General Biology I, II, and III for Science Majors
- Biostatistics
- Genetics
- BIO 395 Senior Capstone (same as LSP requirement)

### Biology Concentration Requirements

See page 6

**Open Electives:** *number varies depending on transfer credit and degree requirements. Students must graduate with a minimum of 192 credit hours. Please speak with your advisor regarding your credit hours and graduation requirements.*

### Allied Field Requirements

- General Chemistry I, II, and III (with Lab)
- Organic Chemistry I & II (with Lab)
- Organic Chemistry III (with Lab) or Principles of Biochemistry
- General Physics I, II, & III
- Mathematics (Choose 1 of 5 sequences)  
Sequence One:
  - Calculus I
  - Calculus IISequence Two:
  - Calculus w/ Integrated Precalculus
  - Calculus w/ Integrated Precalculus II
  - Calculus w/ Integrated Precalculus IIISequence Three:
  - Calculus for Mathematics and Science Majors I
  - Calculus for Mathematics and Science Majors IISequence Four:
  - Calculus for Life Sciences I
  - Calculus for Life Sciences IISequence Five:
  - Summer Calculus I
  - Summer Calculus II

Liberal Studies Requirements differ for students in the Honors Program. Please meet with the CSH Honors Advisor, Nancy Grossman, for specific Honors Program inquiries. Nancy Grossman can be reached at [ngrossma@depaul.edu](mailto:ngrossma@depaul.edu).

**\*Experiential Learning** can be filled in several ways. We currently have three courses specifically for Biological Sciences students:

- **BIO 318 Field Studies in Marine and Estuarine Biology** (aka unofficially “the South Carolina trip course.”) This course is designed for science majors with an interest in marine and estuarine biology and will examine this subject from an ecological perspective. The primary objectives of the course are: 1) to explore the diversity of marine and estuarine life; 2) to understand the manner in which physical and biological factors influence biological diversity in marine systems; 3) to understand the role that humans play in shaping these dynamics; and 4) to develop professional connections and gain real-life experiences in marine science. *Reach out to Dr. Sparkes with questions about joining this course. Offered in December Sessions.*
- **BIO 389 Research in Field Biology** (course taken in spring, study abroad trip to Spain in summer.) This is a research-intensive course designed for science majors and graduate students that will focus on developing skills of collaborative field-based research. Throughout the course, students (working in groups of 2 or 3) will utilize the scientific method to develop and carry out an original research project. Students will utilize the primary literature to learn the current state of research in an area that interests them, then use that knowledge to develop a novel question they can test with a field-based experiment. Data collected will be analyzed and results compiled into a publication quality paper. Students will then present their study to their peers in the form of an oral or poster presentation. *Contact Dr. Bystriansky about joining this course.*
- **BIO 397 Mentored Research in Field Biology:** *For students participating in research with a faculty member and wishing to receive Experiential Learning credit, you can complete the Course Application for BIO 397: Mentored Research Experience in Biology.* The faculty research mentor and student will work together to formulate a research question based on current biological knowledge and the scientific literature. They will develop hypotheses to guide designing and conducting experiments to test the hypotheses. Under faculty supervision, the student will analyze their data and propose follow up experiments. The results and conclusions will be reported in a final project which may be a poster or oral presentation, or research manuscript. In addition, the student will reflect on how the project activities and experiences have contributed to their personal growth as a scientist and their future career plans. Relevant safety and ethical training will be based on the specific proposed research.

## Other Options for Completing Experiential Learning

There are also numerous study abroad opportunities or service-based learning courses that can fulfill the experiential learning requirement, as well as the University Internship Program (UIP) courses offered through the Career Center. Please keep in touch with your advisor to learn about course offerings that will apply to the experiential learning requirement.

## Note about Experiential Learning in 2020-21

For the 2020-21 academic year, Experiential Learning has been designed differently in response to the COVID-19 pandemic and the need to practice social distancing.

The modalities of these Experiential Learning options will be managed on a case-by-case basis. Please contact your professor (if enrolled in a course) or supervisor (if participating in research or an internship) about how they will facilitate the course or experience within the COVID-19 guidelines.

## Additional Graduation Requirements

- No grade lower than a C– is acceptable in a student’s major, minor or allied field.
- Students must have a minimum of 2.000 cumulative grade point average.
- Students must have a minimum of 2.000 cumulative grade point average in the major, minor or allied field.
- Students must abide by the university residency requirement. The student must have completed the following work at DePaul University: the final 60 quarter hours of credit; one-half of the credit earned in the major area of concentration; one-half of the credit earned in the minor if applicable; all courses in the senior year.

## Class Standing

**Freshmen:** 0-43 credit hours

**Sophomores:** 44-87 credit hours

**Juniors:** 88-131 credit hours

**Seniors:** 132 credit hours or above



## Basic Timeline for Entering Students

(Most Applicable for Integrative Concentrations)

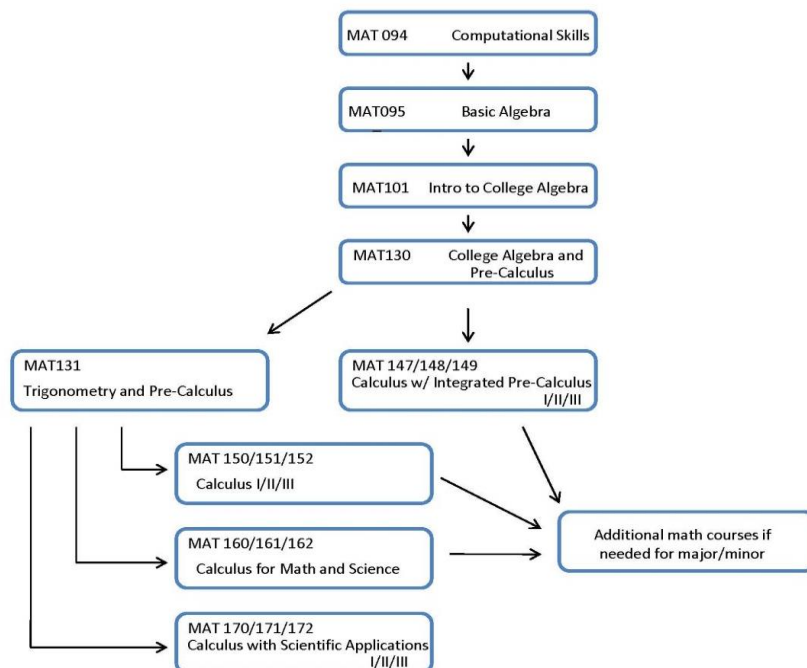
	<u>Autumn Quarter</u>	<u>Winter Quarter</u>	<u>Spring Quarter</u>
YEAR 1	BIO 191 CHE 130/131 WRD 103 LSP 110/111 Explore/Discover Chicago	BIO 192 CHE 132/133 WRD 104 LSP 112 Focal Point	BIO 193 CHE 134/135 Learning Domain LD or Math Pre-requisite
YEAR 2	BIO 206 Statistics CHE 230/231 BIO 215 or 235 Learning Domain	BIO 250 Cell Bio CHE 232/233 Learning Domain LSP 200 Sem Multicultural	BIO 260 Genetics CHE 234/235 or CHE 346 Learning Domain Learning Domain
YEAR 3	BIO Elective PHY 150* Calculus I Learning Domain	BIO Elective PHY 151 Calculus II Experiential Learning	BIO Elective PHY 152 Learning Domain Open Elective
YEAR 4	BIO Elective Learning Domain Learning Domain Open Elective	BIO Elective BIO Elective Learning Domain Open Elective	BIO Elective Learning Domain Open Elective BIO 395 Senior Capstone

\*Students who wish to enter medical school directly after graduation should take physics during sophomore year. This timeline may not be applicable to other concentrations. See your advisor to create a long-term plan specific to your academic needs and career goals.

## Math Placement

Below is a math path that is useful in determining your math placement. Some pre-requisite notes:

- **MAT 130** is the pre-requisite for General Biology I and General Chemistry I
- **MAT 131** is the pre-requisite for Calculus I and Physics I
- **MAT 147/148/149** – Calculus with integrated pre-calculus. MAT 131 is not needed before taking this sequence. MAT 147 is only offered in the fall quarter; MAT 148 is only offered in the winter quarter; MAT 149 is only offered in the spring quarter. Note: some graduate programs will not take this sequence as the calculus pre-requisite.
- Students only need to complete two calculus courses (i.e. MAT 150/151) to complete the math requirement for the biology major. If students choose to take MAT 147, they must complete 148 and 149.
- **MAT 150/151**– Standard calculus. MAT 150/151 are each offered every quarter
- The **MAT 160/170** sequences are offered infrequently.



## Registering & Wait list Procedures

Follow this link for information on registering for classes. (<https://offices.depaul.edu/depaul-central/registration/Pages/add-drop-swap.aspx>) Also, please understand waitlists are automatic within our system. If you are on the waitlist for a class, you will need to wait until the appropriate amount of people drop from the class to which then our system will automatically add you to the class from the waitlist. There is little to nothing your advisor or the professor can do to get you into a class you are waitlisted for, especially lab based classes. This is due to space and safety issues.

**Swap Function:** If you are enrolled in a class that has a time conflict with a waitlisted course, or if you are already enrolled in the maximum amount of hours, the automatic waitlist process will skip over you until the conflict is resolved. Therefore, you are advised to use the “Swap” function any time you add yourself to a waitlist. First, enroll in the “backup” course. Then choose “Swap Classes” from the menu on the left within Manage Classes. You’ll go through and find the class that you want to waitlist for, and will initiate a Swap between that and the “backup” course. Then, if a seat opens up and you are next on the waitlist, you will be dropped from the “backup” course and added to the waitlist. The Swap function can also be used any time you are dropping and adding classes – not just for wait listing. Please contact your academic advisor with any questions or for assistance with this.

## Textbooks & I-Clickers

You can locate, buy and rent the textbooks you need through the DePaul Bookstore’s Website or visit in person. You can also check at the DePaul library, or the library’s Textbook I-sharing program, to see if books are available there to rent out, free of charge.

**I-Clickers** are needed for the General Biology sequence, as well as some of the upper level biology courses, so do not get rid of them!

## 2020-2021 Biology Course Offerings by Quarter

( **NOTE:** Only those courses offered consistently in specific quarters -- doesn't include less-frequently offered electives or allied field courses.)

AUTUMN QUARTER	WINTER QUARTER	SPRING QUARTER
BIO 191 General Biology I	BIO 191 General Biology I	BIO 192 General Biology II
BIO 193 General Biology III	BIO 192 General Biology II	BIO 193 General Biology III
BIO 206 Biostatistics**	BIO 206 Biostatistics**	BIO 201 Human Anatomy
BIO 210 Microbiology	BIO 210 Microbiology	BIO 206 Biostatistics**
BIO 215 Ecology	BIO 220 Prin. of Biotechnology	BIO 210 Microbiology
BIO 235 Evolution	BIO 250 Cell Biology	BIO 215 Ecology
BIO 250 Cell Biology	BIO 260 Genetics	BIO 250 Cell Biology
BIO 307 Animal Physiology	BIO 306/406 Research Methods & Appl. Biostats.	BIO 260 Genetics
BIO 315/415 Topics in Ecology, offered in even years	BIO 309/409 Plant Physiology	BIO 308 Human Physiology
BIO 319/419 Topics in Behavioral Parasitology in odd years	BIO 340/440 Behavioral Neuroscience	BIO 335/435 Concepts in Evolution
BIO 339/439 Cellular Neurobiology	BIO 360/460 Molecular Biology	BIO 340/440 Behavioral Neuroscience
BIO 342/442 Cognitive Neuroscience	BIO 390/490 Immunobiology (no lab)	BIO 342/442 Cognitive Neuroscience
BIO 385/485 Mammalian Reproduction	BIO 380/480 Cancer Biology	BIO 349/449 Topics in Microbiology & Biotechnology
BIO 395 Capstone Seminar	BIO 395 Capstone Seminar	BIO 352/452 Advanced Comparative Physiology
		BIO 375/475 Pharmacology
		BIO 381/481 Topics in Cancer
		BIO 395 Capstone Seminar
*All course offerings are subject to change. Please see your advisor to confirm how these courses will apply to your degree.		
**BIO 206 fulfills the statistics requirement, but is not applicable as a Biology elective for the BIO major or minor.		
400-level indicates the graduate level section of each course.		
<i>This list is not comprehensive but for the purpose of longterm planning, simply shows those BIO courses that are offered consistently in specific quarters. There are many other courses that can also be applied to the degree that are not offered in a consistent pattern.</i>		

## Biology Minors

To earn a minor in Biology, students must take:

- BIO 191, 192, and 193
- Three courses designed for Biology majors (see page 11).
- Courses that will **not** apply to the Biology Minor:
  - SI courses that are designed for non-science majors (e.g. BIO 115, BIO 155, etc.)
  - BIO 206 – Biostatistics, will not apply to the Biology minor. The selection of the three elective courses is up to the student and their academic advisor, based on their interests and career goals. Students are free to contact the Biology academic advisor, Jaimie Engle at [jengle@depaul.edu](mailto:jengle@depaul.edu) on any questions or suggestions for courses they should take to fulfill the Biology minor requirements.





## Required Biology Courses by Concentration

Integrative	Cell & Molecular	Ecology & Evolution	Medicine & Health*	Microbiology & Biotechnology	Neuroscience	Physiology
CORE (20 hours):	CORE (20 hours):	CORE (20 hours):	CORE (20 hours):	CORE (20 hours):	CORE (20 hours):	CORE (20 hours):
BIO 191 General Bio. I	BIO 191 General Bio. I	BIO 191 General Bio. I	BIO 191 General Bio. I	BIO 191 General Bio. I	BIO 191 General Bio. I	BIO 191 General Bio. I
BIO 192 General Bio. II	BIO 192 General Bio. II	BIO 192 General Bio. II	BIO 192 General Bio. II	BIO 192 General Bio. II	BIO 192 General Bio. II	BIO 192 General Bio. II
BIO 193 General Bio. III	BIO 193 General Bio. III	BIO 193 General Bio. III	BIO 193 General Bio. III	BIO 193 General Bio. III	BIO 193 General Bio. III	BIO 193 General Bio. III
BIO 260 Genetics	BIO 260 Genetics	BIO 260 Genetics	BIO 260 Genetics	BIO 260 Genetics	BIO 260 Genetics	BIO 260 Genetics
BIO 206 Biostatistics	BIO 206 Biostatistics	BIO 206 Biostatistics	BIO 206 Biostatistics	BIO 206 Biostatistics	BIO 206 Biostatistics	BIO 206 Biostatistics
<b>Required Concentration Courses (12 hours):</b>	<b>Required Concentration Courses (12 hours):</b>	<b>Required Concentration Courses (8 hours):</b>	<b>Required Concentration Courses (4 hours):</b>	<b>Required Concentration Courses (16 hours):</b>	<b>Required Concentration Courses (16 hours):</b>	<b>Required Concentration Courses (8 hours):</b>
BIO 215 Ecology or BIO 235 Evolution	BIO 210 Microbiology	BIO 215 Ecology	BIO 250 Cell Biology	BIO 210 Microbiology	BIO 250 Cell Biology	BIO 250 Cell Biology
BIO 250 Cell Biology	BIO 250 Cell Biology	BIO 325 Evolution		BIO 220 Prin. Of Biotechnology	BIO 339 Cellular Neurobiology	BIO 307 Animal Phys. or BIO 308 Human Phys.
BIO 307 Animal Phys. or BIO 308 Human Phys.	BIO 360 Molecular Biology			BIO 250 Cell Biology	BIO 307 Animal Phys. or BIO 308 Human Phys.	BIO 309 Plant Physiology
BIO 309 Plant Physiology				BIO 349 Topics/Microbio. & Biotech.	BIO 340 Behavioral Neuroscience	
<b>Five Additional Major Level Courses (20 hours):</b>	<b>One Advanced Topics Course (4 hours):</b>	<b>Three Upper Level Courses From Approved List. One Must Be A Lab.</b>	<b>Two Courses From Approved List (8 hours):</b>	<b>Two Course From Approved List (8 hours). One Must Be A Lab.</b>	<b>One Course From Approved List (4 hours):</b>	<b>Three Upper Level Courses From Approved List (12 hours). One Must Be A Lab.</b>
Any five of approved Biology courses.	BIO 315 Topics in Ecology		BIO 201 Human Anatomy		BIO 341 Topics in Neurobiology	
Two must have labs and two must be at least 300-level.	BIO 319 Topics in Behavioral Parasitology	BIO 270 Comparative Vert Anatomy	BIO 210 Microbiology	BIO 235 Evolution	BIO 342 Cognitive Neuroscience	BIO 201 Human Anatomy or BIO 270 Comparative Vertebrate Anatomy
Open Electives to meet 192 hours.	BIO 335 Concepts in Evolution	BIO 301 Animal Behavior	CHE 340/341 BioChem & Exp BioCh	BIO 320 Advanced Microbiology	BIO 360 Molecular Biology	
	BIO 341 Topics in Neurobiology	BIO 304 Field Methods for Biologists	BIO 307 Animal Phys. or BIO 308 Human Phys.	BIO 321 Molecular Methods/Eco/Evo	BIO 375 Intro to Pharmacology	BIO 307 Animal Phys. or BIO 308 Human Phys.
	BIO 345 Topics in Paleobiology	BIO 306 Research Methods & Applied Biostats	CHE 342/343 BioChem II	BIO 347 Topics/Med. Bacteriology	BIO 386 Intro to Endocrinology	BIO 309 Plant Physiology
	BIO 349 Topics in Microbiology & Biotech	BIO 315 Topics in Ecology	<b>Three Upper Level Courses From Approved List (12 hours). One Must Be A Lab.</b>	BIO 348 The Biology of Infection	<b>Three Upper Level Biology Courses (12 hours). 2/4 BIO Electives Must Be A Lab.</b>	BIO 312 Topics in Exercise Physiology
	BIO 345 Topics in Medical Bacteriology	BIO 318 Field Studies in Marine Biology	BIO 201 Human Anatomy	BIO 360 Molecular Biology		BIO 339 Cellular Neurobiology
	BIO 361 Topics in Molecular Biology	BIO 319 Topics in Behavioral Parasitology	BIO 210 Microbiology	BIO 370 Immunobiology		BIO 352 Advanced Comp. Physiology
	BIO 390 Special Topics (as appropriate)	BIO 321 Molec. Methods in Eco & Evo	BIO 220 Prin. Of Biotechnology	BIO 375 Intro to Pharmacology		BIO 360 Molecular Biology
	<b>Two Upper Level Electives From Approved List (8 hours). One Must Be A Lab.</b>	BIO 325 Paleobiology	BIO 270 Compar. Vert. Anatomy	CHE 340/341 Biochemistry I		BIO 385 Mammalian Reproduction
	BIO 309 Plant Physiology	BIO 332 Population Ecology	BIO 307 Animal Phys. or BIO 308 Human Phys.	CHE 342/343 Biochemistry II		BIO 386 Intro to Endocrinology
	BIO 315 Topics in Ecology	BIO 335 Concepts in Evolution	BIO 311 Histology	HLTH 320 Molecular Virology		CHE 340/341 Biochemistry I
	BIO 321 Molecular Methods in Eco & Evo	BIO 345 Topics in Paelobiology	BIO 330 Developmental Biology	BIO 390 Special Topics		<b>Three Upper Level Biology Courses (12 hours). One Must Be A Lab.</b>
	BIO 330 Developmental Biology	BIO 389 Research in Field Biology	BIO 339 Cellular Biology	<b>Two Additional Major Level Courses (8 hours).</b>		
	BIO 335 Concepts in Evolution	BIO 390 Special Topics	BIO 340 Behavioral Neuroscience			
	BIO 339 Cellular Neurobiology	<b>Three Additional Majors-Level Courses (12 hours). Two of the six total electives must have a lab.</b>	BIO 341 Topics in Neurobiology			
	BIO 341 Topics in Neurobiology		BIO 342 Cognitive Neuroscience			
	BIO 345 Topics in Paleobiology		BIO 347 Topics/Med. Bacteriology			
	BIO 347 Topics in Medical Bacteriology		BIO 348 The Biology Of Infection			
	BIO 348 The Biology of Infection		BIO 349 Topics/Microbio. & Biotech.			
	BIO 355 Genetic Toxicology		BIO 352 Advanced Comp. Physiol.			
	BIO 361 Topics in Molecular Biology		BIO 360 Molecular Biology			
	BIO 362 Bioinformatics/Bench Sci.		BIO 362 Bioinformatics/Bench Sci.			
	BIO 365 Principles of Toxicology		BIO 370 Immunobiology			
	BIO 370 Immunobiology		BIO 375 Intro to Pharmacology			
	BIO 375 Intro to Pharmacology		BIO 380 Cancer Biology			
	BIO 380 Cancer Biology		BIO 381 Topics in Cancer			
	BIO 381 Topics in Cancer		BIO 385 Mammalian Reproduction			
	BIO 385/485 Mammalian Reproduction		BIO 386 Intro to Endocrinology			
	BIO 386 Intro to Endocrinology		CHE 340/341 Biochemistry I			
	CHE 340/341 Biochemistry I		CHE 342/343 Biochemistry II			
	BIO 390 Special Topics		BIO 390 Special Topics			
	<b>Two Additional Major Level Courses (8 hours):</b>		<b>Two Additional Major Level Courses (8 hours):</b>			
	Any two approved Biology courses.		Any two approved Biology courses.			
	One must be a lab course.		One must be a lab course.			
<b>Summary of Biological Sciences Major Requirements</b>	<b>Summary of Biological Sciences Major Requirements</b>					
	All BIO course requirements total 52 credit hours.					
	BIO students will also take					
	Physics Sequence (12 hours)					
	General Chemistry Sequence (12+ hours)					
	Organic Chemistry Sequence (12 hours) -- Org I, II, and III, or Org I, II, and CHE 346					
	Calculus Sequence (8+ hours)					
	Liberal Studies Requirements (76 hours)					
	Open Electives (20 hours; as needed to reach 192)					
	<b>Total: 192 hours</b>					
At least two of the five electives must have a lab component and at least two of the five must be 300-level courses. Biology courses that fulfill the Scientific Inquiry Domain requirements, other than the General Biology sequence, do not generate credit toward the major or minor.	At least two of the four biology electives must have a lab. Biology courses other than the General Biology sequence that have any Scientific Inquiry domain designation do not generate credit toward the major or minor.	Two of the six total electives must have a lab. Biology courses other than the General Biology sequence that have any Scientific Inquiry domain designation do not generate credit toward the major or minor.	Students may substitute HLTH 301 AND HLTH 302 for BIO 201 AND BIO 307 or BIO 201 AND BIO 308. Students who opt to take HLTH 301 AND HLTH 302 cannot receive credit for any of the following courses: BIO 201, BIO 307, and BIO 308. BIO 201 and 307 or BIO 308 do not need to be taken as a combination.	One elective must be a lab course. Biology courses other than the General Biology sequence that have any Scientific Inquiry domain designation do not generate credit toward the major or minor.	At least two of the four total electives must be lab courses. Biology courses other than the General Biology sequence that have any Scientific Inquiry domain designation do not generate credit toward the major or minor.	One elective must be a lab course. Biology courses other than the General Biology sequence that have any Scientific Inquiry domain designation do not generate credit toward the major or minor.

1. Students can request permission from the department to have a BIO 390 class count for one of the requirements if appropriate.

2. Each professional program in health requires different courses from the list provided. Please consult with an academic advisor to help you select the ones that will support your applications.

3. It is strongly recommended that students who wish to take the MCAT take an ethics course as part of their Philosophical Inquiry Domain and PSY 105, PSY 106 & SOC 101 for their Social, Cultural, and Behavioral Inquiry. Biology courses other than the General Biology sequence that have any Scientific Inquiry domain designation do not generate credit toward the major or minor.

## Major Field Courses List: all pre-requisites must be passed with a C- or better

100 Level Courses			Pre Requisites	Notes
Lab	BIO 191	General Biology I for Science Majors	MAT 130	General Biology courses can also count as SI
Lab	BIO 192	General Biology II for Science Majors	BIO 191	General Biology courses can also count as SI
Lab	BIO 193	General Biology III for Science Majors	BIO 192	General Biology courses can also count as SI
Lab	BIO 201	Human Anatomy	Sophomore standing	
200 Level Courses			Pre Requisites	Notes
	NEU 201	Introduction to Neuroscience	BIO 191	
	BIO 201	Human Anatomy	Sophomore standing	
	BIO 202	Human Physiology	Sophomore standing	Cannot receive credit for both 202 & 134
	BIO 206	Biostatistics	BIO 191/192/193	Counts as statistics credit- will not apply as a Biology major or minor elective
Lab	BIO 209	Plant Biology	BIO 191/192/193	
Lab	BIO 210	Microbiology	BIO 191/192/193	
Lab	BIO 215	Ecology	BIO 191/192/193	
Lab	BIO 220	Principles of Biotechnology	BIO 210 and BIO 250	
	BIO 230	Epidemiology	BIO 206	
Lab	BIO 235	Evolution	BIO 191/192/193	
Lab	BIO 250	Cell Biology	General BIO sequence and CHE 134 or 138	
Lab	BIO 260	Genetics	BIO 191/192/193	
Lab	BIO 270	Comparative Vertebrate Anatomy	BIO 191/192/193	
	BIO 290	Topics in Biology	Sophomore standing	Offered occasionally, 2 - 4 hours
300 Level Courses			Pre Requisites	Notes
Lab	BIO 301	Animal Behavior	Gen BIO Seq, BIO 206, and BIO 215 or BIO 235	
Lab	BIO 304	Field Methods for Biologists	Junior standing or above	
Lab	BIO 306	Research Methods and Applied Biostatistics	BIO 206	
Lab	BIO 307	Animal Physiology	BIO 250	Can't receive credit if already taken BIO 310 or 308
Lab	BIO 308	Human Physiology	BIO 250	Can't receive credit if already taken BIO 310 or 307
Lab	BIO 309	Plant Physiology	BIO 250	Cross-listed with BIO 409
Lab	BIO 311	Histology	BIO 250	
	BIO 312	Topics in Exercise Physiology	BIO 250	Cross-listed with BIO 412
	BIO 315	Topics in Ecology	BIO 191/192/193 and BIO 215	Cross-listed with BIO 415
Lab	BIO 316	Phycology	BIO 191/192/193	Cross-listed with BIO 416
Lab	BIO 317	Aquatic Biology	BIO 191/192/193 and BIO 215	Cross-listed with BIO 417
Lab	BIO 318	Field Studies in Marine and Estuarine Biology	BIO 191/192/193 and BIO 215 or 235	Trip to South Carolina in Dec Session
	BIO 319	Topics in Behavioral Parasitology	BIO 191/192/193 and BIO 215 or 235	Cross-listed with BIO 419
Lab	BIO 320	Advanced Microbiology	BIO 210 and junior standing	Cross-listed with BIO 420
Lab	HLTH 320	Molecular Virology	BIO 210 or BIO 250	
Lab	BIO 321	Molecular Methods in Ecology and Evolution	BIO 215 and BIO 235	Cross-listed with BIO 421
Lab	BIO 325	Paleobiology	BIO 191/192/193 and BIO 215 or 335	
Lab	BIO 330	Developmental Biology	BIO 250 and BIO 260	Cross-listed with BIO 430
	BIO 331	Topics in Developmental Biology	BIO 250 and BIO 260	Cross-listed with BIO 431
	BIO 332	Population Ecology	BIO 215 or ENV 250	
	BIO 335	Concepts in Evolution	BIO 235 or 215 and BIO 260	Cross-listed with BIO 435
	BIO 339	Cellular Neurobiology	BIO 250 or PSY 377 or HLTH 301	Cross-listed with BIO 439
Lab	BIO 340	Behavioral Neuroscience	NEU 201, BIO 339, BIO 310, or PSY 377	
Lab	CHE 340/341	Biochemistry I	CHE 234/235 or CHE 238/239	
Lab	CHE 342/343	Biochemistry II	CHE 340/341	
	BIO 341	Topics in Neurobiology	BIO 340 or BIO 339 or PSY 377	Cross-listed with BIO 441
	BIO 342	Cognitive Neuroscience	NEU 201 or BIO 339, 340, or 341, or PSY 377	
	BIO 345	Topics in Paleobiology	Gen BIO sequence and BIO 215 or 235	Cross-listed with BIO 445
	CHE 346	Principles of Biochemistry	CHE 232 or CHE 238	
	BIO 347	Topics in Medical Bacteriology	BIO 210 or 250 & Junior Standing	Cross-listed with BIO 447
	BIO 348	Biology of Infection	BIO 210 and 370	Cross-listed with BIO 448
	BIO 349	Topics in Microbiology and Biotechnology	BIO 210 or BIO 220	
	BIO 352	Advanced Comparative Physiology	BIO 250	Cross-listed with BIO 452
Lab	BIO 355	Genetic Toxicology	BIO 260	Cross-listed with BIO 455
Lab	BIO 360	Molecular Biology	BIO 250 and BIO 260	Cross-listed with BIO 460
	BIO 361	Topics in Molecular Biology	BIO 360	Cross-listed with BIO 361
	BIO 362	Bioinformatics for Bench Scientists	Gen BIO sequence and Bio 260	Cross-listed with BIO 462
	BIO 365	Principles of Toxicology	BIO 193 and CHE 234 or 238	Cross-listed with BIO 465
	BIO 369	Intro to Stem Peer Mentoring	Instructor consent	
Lab	BIO 370	Immunology	BIO 250 or 260	Cross-listed with BIO 471
	BIO 375	Introduction to Pharmacology	BIO 250 & BIO 307 or 308*	Cross-listed with BIO 475
	BIO 380	Cancer Biology	BIO 250 and BIO 260	Cross-listed with BIO 481
	BIO 381	Topics in Cancer Biology	BIO 250	Cross-listed with BIO 481
	BIO 385	Mammalian Reproduction	BIO 250 & BIO 307 or 308*	Cross-listed with BIO 485
	BIO 386	Introduction to Endocrinology	BIO 250 & BIO 307 or 308*	Cross-listed with BIO 486
	BIO 388	Research Methods in Biology	Gen Bio Sequence, 1 BIO Elec** From List	Corequisite for BIO 389
	BIO 389	Research in Field Biology	Instructor consent	Corequisite for BIO 388
	BIO 390	Special Topics	Junior or senior standing	Offered occasionally
	BIO 395	Biology Capstone Seminar	Senior standing	
	BIO 397	Mentored Research Experience in Biology	BIO 397 course application	worked out through individual faculty
	BIO 399	Independent Study		Worked out through individual faculty

\*can substitute HLTH 301 AND 302 for either BIO 307 or 308. Please note must complete both HLTH 301 AND 302 -- just one will not suffice.

\*\*BIO 388 Pre-Req: One from BIO 206, BIO 215, BIO 235, BIO 250, BIO 260, BIO 307, BIO 308, BIO 309, BIO 310.

# Getting Involved

## Student Groups

There are many science student groups available for students wishing to get involved in leadership opportunities on campus: Please visit the Student Involvement website to join and to learn more about all of the below student organizations: <http://studentaffairs.depaul.edu/involvement>.

- Pre-Dental Club: [depaulpredental@gmail.com](mailto:depaulpredental@gmail.com)
- Pre-Vet Club: [depaul.prevetclub@gmail.com](mailto:depaul.prevetclub@gmail.com)
- DePaul Neuroscience Club: [depaulneuro@gmail.com](mailto:depaulneuro@gmail.com)
- DeSACNAS: [desacnas@gmail.com](mailto:desacnas@gmail.com)
- DePaul Ecology, Evolution, & Physiology (DEEP): [deep.depaul@gmail.com](mailto:deep.depaul@gmail.com)
- Red Cross Club: [depaulredcrossclub@gmail.com](mailto:depaulredcrossclub@gmail.com)
- Global Brigades: [depaulgbpresidents@gmail.com](mailto:depaulgbpresidents@gmail.com)
- O-STEM: [depaulostem@gmail.com](mailto:depaulostem@gmail.com)
- DePaul Chapter of Doctors Without Borders: [syeda.bajeel@gmail.com](mailto:syeda.bajeel@gmail.com)
- Biomedical Sciences Journal Club: [jbodne7@gmail.com](mailto:jbodne7@gmail.com)
- MEDLife: <https://bit.ly/DePaulMEDLife>
- DePaul Public Health Association club: [Firyalmahak@gmail.com](mailto:Firyalmahak@gmail.com)

## Research Opportunities

Faculty within the Biological Sciences Department often have positions available for undergraduates seeking research experience. We encourage students to contact faculty and explore the opportunity for research here at DePaul:

- Visit our website and read through faculty profiles to see the current research projects of our faculty members: <https://csh.depaul.edu/academics/biological-sciences/Pages/faculty-staff.aspx>
- This link lists out some of the internal and external opportunities we have: <http://go.depaul.edu/cshstudentresearch>
- Handshake is our online hub for all things college to career - jobs, internships, career fairs, events, mentors and more. Goal in mind: to help connect students to their dream career: <https://depaul.joinhandshake.com/>
- If you land a research opportunity, be sure to check with your advisor to see how the research could apply to your experiential learning requirement.
- **BIO Department Introduces New Experiential Learning Research Course!** Starting this in the 2020-21 academic year, BIO students doing research with BIO faculty can enroll in **BIO 397 Mentored Research Experience in Biology**, to earn credit for their Experiential Learning Requirement. You must already be in touch with a professor about doing research together, after which you and the professor will complete the BIO 397 Course Application in order to get enrolled. The application can be found at <https://csh.depaul.edu/academics/biological-sciences/Pages/research.aspx>.

## Pre-Health Advising

Interested in a health related career? There are many forms of Pre-Health Advising at DePaul. There is the Pre-health Advising Committee (PAC), which is comprised of an interdisciplinary body of faculty and staff whose primary function is the academic advising of students intending to pursue a career in one of the health professions. We also have a dedicated Pre-Health staff advisor in addition to the Biology staff advisor. To learn more about the PAC and our Pre-Health Advisor, Lindsey Burdick ([lburdick@depaul.edu](mailto:lburdick@depaul.edu)), and to obtain information about upcoming events and speakers that the PAC organizes, we encourage you to visit their website and register for their services at: <http://csh.depaul.edu/student-resources/advising-student-services/pre-health-advising>

# Transferring Credits at DePaul University

## Transfer Students

We are aware that many of our Biology students have transferred in credits from other colleges and universities. Many have transferred from majors other than Biology. Because the number and type of courses transferred varies considerably, **we strongly urge transfer students to see your staff academic advisor (Jaimie Engle, [jengle@depaul.edu](mailto:jengle@depaul.edu)) as soon as possible.** We want to make sure you are on track to take the proper courses and to establish an appropriate timeline for graduating from the program.

Students transferring from another major, or from backgrounds with little or no science coursework, should realize it might take longer to complete the degree than expected due to the required sequencing of courses. In talking with your advisor, make sure you both understand and are comfortable with any outlined timeline for completion of the Biology program. Especially if transferring any of your required science or math sequences from a semester-system institution, keep in mind these do not match up perfectly with DePaul's quarter-system sequences. For example, if you transferred in Biology 121 from Harold Washington College, it would cover all of BIO 191 at DePaul and part of the content covered in BIO 192 at DePaul. But you would still have to take BIO 192 at DePaul before you could finish the sequence with BIO 193. You would have to take both BIO 121 and 122 at Harold Washington to cover BIO 191, 192, and 193 at DePaul.

## Transferring Courses into DePaul

As a DePaul student, if you are considering taking a course outside of the university and transferring in the credits, you should be aware of the policies and guidelines regarding transfer credit. (<https://csh.depaul.edu/student-resources/advising-student-services/undergraduate-advising/Forms/Documents/SupplementalTransferCreditEditableForm80613.pdf>) Please be sure to read these policies carefully. **STUDENTS MUST FILL OUT THE TRANSFER CREDIT APPROVAL FORM PRIOR TO TAKING ANY COURSES AT AN OUTSIDE INSTITUTION.** The College of Science and Health will notify you if your request has been approved or denied.

The Transfer Course List tool is helpful in determining how transfer credit will be applied to a DePaul degree: <https://www.depaul.edu/admission-and-aid/types-of-admission/transfer-student/transferring-your-courses/Pages/course-lists.aspx>.

**NOTE: Last 60 credits must be taken at DePaul University.**

Be sure to see your advisor if you have questions about transferring credit into DePaul.

## AP Credit from High School

Currently, students get academic credit for AP test scores as follows:

- Score of 3 = BIO 191 (an AP score of 3 is a weak score. Students should take BIO 191)
- Score of 4 = BIO 191 and 192
- Score of 5 = BIO 191, 192, and 193

Many professional school programs do not accept AP credit for science courses. Students who are considering applying to professional programs (e.g. medical, dental, pharmacy, optometry, etc.) should take BIO 191, 192, and 193 at DePaul. For a full list of accepted AP credit, visit this link: <https://www.depaul.edu/admission-and-aid/test-credit-and-placement/credit-given-by-exam/Pages/ap.aspx>. To clarify, DePaul does accept AP credit for eligible AP scores. Even if credit is not used to substitute for major coursework, the credit can still count toward graduation in the Open Electives requirement.

## 2020-21 Course Modalities

A course modality is the way in which a course will be taught by an instructor. For many years, the two main course modalities offered at DePaul were on-campus instruction and asynchronous online instruction. Due to the COVID-19 pandemic and the need to practice social distancing, DePaul has added additional course modalities to facilitate effective online learning. The 2020-21 academic school year will operate under a variety of course modalities, dependent on the course and instructor. Some courses will continue to be held on-campus, ensuring that they adhere to social distancing protocols.

The main course modalities you can expect to see this school year are as followed:

- **On-Campus:** Class sessions will meet in person on specified days and times at a specified location. This has been the most common course modality at DePaul before Spring Quarter 2020.
- **On-Campus Hybrid:** Some class sessions will meet in person on specified days and times, while other assignments are to be completed online, asynchronously.
- **Online Asynchronous:** Class content is to be completed online via D2L. There are no set meeting times. This has been the most common online modality at DePaul before Spring Quarter 2020.
- **Online Synchronous:** Class sessions will be held online using a videoconferencing tool, such as Zoom. These sessions will occur at specified dates and times, as they would for an in-person course. This modality has been used to facilitate remote learning since Spring Quarter 2020.
- **Online Hybrid:** The entire course will be held online. However, some synchronous class meetings will occur, whereas other components are to be done asynchronously via D2L.

You can view the modality of your classes in Campus Connect.

Campus Connect > Manage Classes > View My Classes > Select the course you wish to view > Class Details > here you will find the section titled “Instruction Mode”, and the course modality will be listed beneath this.

*Remember that on-campus activity is subject to change throughout the 2020-21 academic year.*

For more information about course modalities, please visit <https://resources.depaul.edu/teaching-commons/teaching-guides/course-design/Pages/course-modalities.aspx>.



## Academic Support Resources

*Supplemental Instruction, Tutoring, Office Hours, Academic Success Coaching, Counseling*

**Supplemental Instruction (SI)** lessons are a great way to review material learned in the classroom. Supplemental Instruction (SI) is a free program operating out of the Office for Teaching, Learning, and Assessment. Students who are enrolled in SI-supported courses are highly encouraged to attend peer-assisted review sessions led by SI Leaders. SI Leaders are students selected by the faculty to help review class material who successfully completed the course themselves. Sessions are typically held in the Richardson Library in Lincoln Park. For the SI Schedule, click here: <https://resources.depaul.edu/supplemental-instruction/session-schedule/Pages/default.aspx>

**Tutoring by Subject:** Visit the Student Success webpages to find Tutoring by Subject, and other support resources: <https://resources.depaul.edu/student-success/tutoring/Pages/default.aspx>.

**Office Hours:** Students are also encouraged to attend both their Instructors Office hours, and their Teaching Assistant's office hours for assistance outside of class. This information should be in your course syllabus.

**The Academic Success Center** offers various resources for student support, including personalized academic success coaching. Success coaches can help you identify current obstacles to your academic success, and strategies for overcoming those obstacles and improving in other areas. Students can set up a one-on-one meeting with a success coach by emailing [ASC@depaul.edu](mailto:ASC@depaul.edu). Please include your email and phone number and one of our staff members will contact you to set up a meeting time. We will meet with you weekly through Zoom with opportunities for communication via email between sessions. You may choose to meet only once or twice or continue throughout the quarter depending on your needs and desires.

**Online Learning Support:** With the University's recent transition to mostly online education, Academic Success Center is particularly focused on helping students prepare to be successful in online learning. The following webpage has some strategies for being successful in online courses: <https://resources.depaul.edu/student-success/success-strategies/Pages/default.aspx>. Or, visit the Academic Success Center webpages for a more comprehensive look at the resources and services they offer: <https://education.depaul.edu/student-resources/academic-success-center/Pages/default.aspx>. You can also refer to the info about to schedule a meeting with a success coach to discuss online learning strategies in particular.

**University Counseling Services:** Your mental wellbeing is a critical part of your academic success. It is not uncommon for students to place their mental health on the backburner while trying to keep up with all the demands of school, work, and your personal life. But you owe it to yourself to take time to ensure your mental wellbeing.

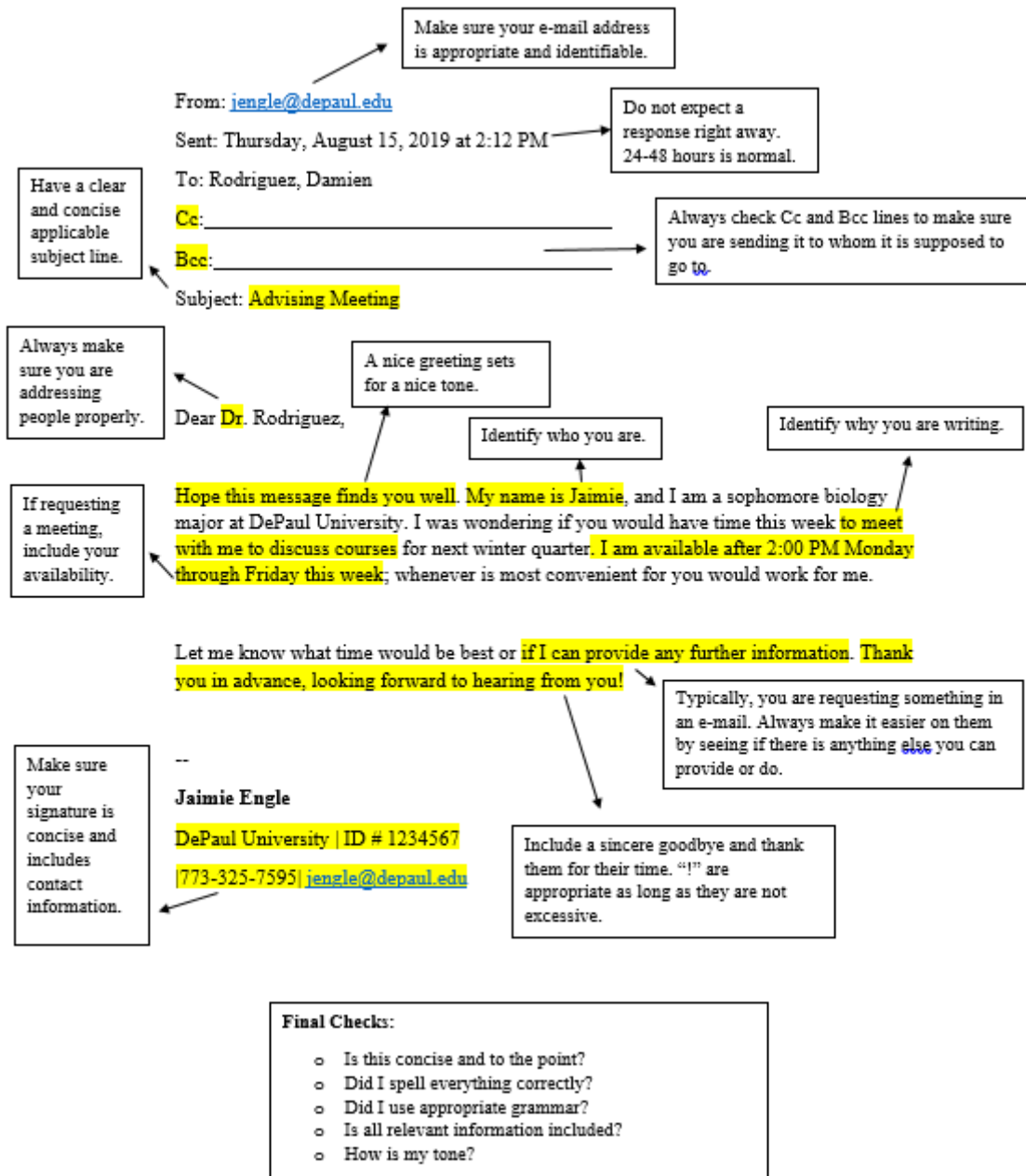
University Counseling Services helps remove barriers to learning by providing accessible psychological and psychiatric assessment, short-term psychotherapy, medication management, consultation and crisis intervention, community referrals, workshops and psychoeducational programming to currently enrolled students.

We are committed to a student centered, developmental approach, and assist students in defining and accomplishing personal and academic goals, thus maximizing their potential to benefit from the academic environment and experience. You can find info about University Counseling Services at <https://offices.depaul.edu/student-affairs/about/departments/Pages/ucs.aspx>, and can contact them using the info below.

Lincoln Park  
2250 N. Sheffield  
Student Center, Suite 350  
Chicago, IL 60614  
(773) 325-7779

Loop  
25 E. Jackson Blvd  
Lewis Center, Suite 1465  
Chicago, IL 60604  
(312) 362-6923

# Email Etiquette 101



**NOTE:** This page provides suggestions for professional email communication, but should not be confused as instructions for how to request an academic advising appointment within the Biological Sciences department. Instructions for scheduling/requesting a Biology Advising appointment can be found on page 2 of this guide.

## THE SENIOR “TO DO” LIST FOR GRADUATION- 2020/2021



Congratulations on making it this far! The DePaul Commencement website will have all of the information you need to participate in the Commencement Ceremony. Keep in mind that you need to apply for degree conferral in order to receive your diploma. Visit the Commencement website here: <https://resources.depaul.edu/commencement/Pages/default.aspx>  
If you want to graduate in a timely manner, follow these steps:

1. **Meet with your Staff Academic Advisor, for your mandatory degree conferral appointment** to make sure you are on track to graduate. You can find your advisor assignment in BlueStar, and can schedule an appointment with them through their listed contact information.
2. **All students must graduate with a minimum of 192 credit hours, at least a 2.0 cumulative GPA and have finished all the requirements for their degree.** <https://www.depaul.edu/university-catalog/degree-requirements/undergraduate/csh/biological-sciences-bs/Pages/default.aspx>
3. **Apply for Degree Conferral on Campus Connect.** Submitting this application lets the university know that you plan to finish your degree in a specific term. You cannot obtain a degree from DePaul without applying for degree conferral (it is a really quick process). Follow this path in Campus Connect: “Main Menu” → “Self Service” → “Degree Process/Graduation” → “Apply for Graduation.”  
Deadlines for applying for Degree Conferral:  
**Fall Quarter (October 1<sup>st</sup>), Winter Quarter (January 15<sup>th</sup>), Spring Quarter (February 1<sup>st</sup>), Summer Session (July 15<sup>th</sup>)**
4. **Order your Cap and Gown in April.** Ordering your cap and gown serves as your RSVP to the Commencement ceremony in June. Without a cap and gown order, you cannot participate. You will need a cap and gown in order to walk across the stage during the commencement ceremony.  
<https://resources.depaul.edu/commencement/preparation/Pages/cap-and-gown.aspx>
5. **Pick up your Cap and Gown in the Lincoln Park Student Center room 120 A/B. Date/time TBA (usually in June).** If you do not pick up your cap and gown (and tickets) during cap and gown pick-up. You will receive emails with information about cap and gown pick-up, but you should also check the Commencement website in the spring.
6. **Take out loans to finance school?** Schedule an appointment with an Advisor in our Financial Fitness Office to learn about loan consolidation and repayment plan options: <http://financialfitness.depaul.edu>.
7. **Need to make plans for after graduation?** Visit the Career Center and meet one-on-one with a career advisor: <https://resources.depaul.edu/career-center/Pages/default.aspx>

**\*For questions regarding resume building, writing a cover letter, and career opportunities, please make an appointment with a Career Center Advisor in Schmitt Academic Center room 192. The Career Center staff can also be reached by phone at (773) 325-7431 and by e-mail at [career\\_center@depaul.edu](mailto:career_center@depaul.edu).**





## **BIOLOGY SEMINAR SERIES**

**Fridays at 2pm on Zoom**



### Autumn Quarter

**September 25<sup>th</sup>** Biological Sciences Meet & Greet

**October 16<sup>th</sup>** Dr. Eric Landahl, Physics

**November 13<sup>th</sup>** Dr. Margaret Bell, Biology/Health Sciences

### Winter Quarter (Dates TBD)

January, February - Darwin Day, March

### Spring Quarter (Dates TBD)

April - Earth Day, May - Senior Symposium



\*details for Winter and Spring Quarter events TBA