Contents

Introduction................................................................................................................................................. 2
Contacting Us.................................................................................................................................................. 2
Social Media...................................................................................................................................................... 2
Faculty and Staff Contact Information........................................................................................................ 3
Outline of Biology Curriculum...................................................................................................................... 4
Basic Timeline for Entering Students & Math Placement........................................................................... 5
Required Biology Courses for Concentrations............................................................................................ 6
Getting Started............................................................................................................................................... 7
  ▪ Declaring or Changing Your Major, Minor or Concentration
  ▪ Textbooks & I-Clickers
  ▪ Registering & Waitlist Procedures
  ▪ Pre-Health Advising
Getting Involved........................................................................................................................................... 7
  ▪ Student Groups
  ▪ Research Opportunities
Transfer Students & Transfer Course Policies............................................................................................. 8
AP Credit from High School............................................................................................................................ 8
Supplemental Instruction and Tutoring........................................................................................................ 8
2018-2019 Biology Course Offerings by Quarter....................................................................................... 9
Biology Minors ............................................................................................................................................... 9
Major Field Courses and Prerequisites...................................................................................................... 10 - 13
Email 101 Etiquette........................................................................................................................................... 14
Senior Graduation Checklist............................................................................................................................ 15
Sample Resumes/Cover Letters .................................................................................................................... 16-18

Introduction

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 that 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 that you find, as well as any additional types of information you would like us to put in it. Our goal is to make sure that every student has access to all the information they need to complete our program and to help them succeed in their academic careers.

Contacting Us

Main Office: McGowan North, rooms 118 and 125
Phone: 773-325-7595
Hours: Monday-Friday, 9-5pm
Be sure to meet with your academic advisor at least once a quarter to ensure that 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.

Social Media

We use social media platforms to help inform our students about potential internships and research opportunities, upcoming events in the department, and other departmental news and information.

www.twitter.com/depaubiodept  www.facebook.com/depaubio  @depaulbiodept


<table>
<thead>
<tr>
<th>Name</th>
<th>McGowan Office</th>
<th>Extension</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Windsor Aguirre (Evolutionary Biology)</td>
<td>McGSo 221A</td>
<td>x58005</td>
<td><a href="mailto:waguirre@depaul.edu">waguirre@depaul.edu</a></td>
</tr>
<tr>
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</tr>
<tr>
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<td><a href="mailto:margaret.bell@depaul.edu">margaret.bell@depaul.edu</a></td>
</tr>
<tr>
<td>Dr. Joanna Brooke (Microbiologist)</td>
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<td><a href="mailto:jbrooke@depaul.edu">jbrooke@depaul.edu</a></td>
</tr>
<tr>
<td>Dr. Jason Bystriansky (Physiologist)</td>
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</tr>
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<td>Dr. Stanley Cohn (Cell Biology)</td>
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<td>x57597</td>
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</tr>
<tr>
<td>Dr. Sarah Connolly (Microbiologist) (Joint-appointment with Health Sciences)</td>
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</tr>
<tr>
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</tr>
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</tr>
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<tr>
<td>Dr. Jingjing Kipp (Physiologist)</td>
<td>McG 206</td>
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<td><a href="mailto:jkipp@depaul.edu">jkipp@depaul.edu</a></td>
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<tr>
<td>Dr. Dorothy Kozlowski (Neurobiologist)</td>
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</tr>
<tr>
<td>Dr. Jalene LaMontagne (Ecologist)</td>
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</tr>
<tr>
<td>Dr. Elizabeth LeClair (Develop. Biol.)</td>
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<td><a href="mailto:eleclair@depaul.edu">eleclair@depaul.edu</a></td>
</tr>
<tr>
<td>Dr. Carolyn Martineau (Senior Instructor)</td>
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<td><a href="mailto:enorstrom@depaul.edu">enorstrom@depaul.edu</a></td>
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<td>Dr. Talitha Rajah (Cancer Biology)</td>
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</tr>
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<td>x52184</td>
<td><a href="mailto:mschreme@depaul.edu">mschreme@depaul.edu</a></td>
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<tr>
<td>Dr. Kenshu Shimada (Paleobiology) (Joint-appointment with Environmental Science)</td>
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<td><a href="mailto:kshimada@depaul.edu">kshimada@depaul.edu</a></td>
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**Adjunct Faculty**

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<th>McG 111</th>
<th>x51557</th>
<th><a href="mailto:cbehren1@depaul.edu">cbehren1@depaul.edu</a></th>
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<tbody>
<tr>
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<td>Dr. Terry Fitzpatrick</td>
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<td><a href="mailto:tfitzpat@depaul.edu">tfitzpat@depaul.edu</a></td>
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<td>Dr. Richard Hudson</td>
<td></td>
<td></td>
<td><a href="mailto:rhudson5@depaul.edu">rhudson5@depaul.edu</a></td>
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<tr>
<td>Dr. Anthony Ippolito</td>
<td></td>
<td></td>
<td><a href="mailto:aippolit@depaul.edu">aippolit@depaul.edu</a></td>
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<td>Dr. Dennis Meritt (Zoology &amp; Nat. Hist.)</td>
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<td></td>
<td><a href="mailto:dmeritt@depaul.edu">dmeritt@depaul.edu</a></td>
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<tr>
<td>Dr. Kate Soderstrom</td>
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<td></td>
<td><a href="mailto:ksoderst@depaul.edu">ksoderst@depaul.edu</a></td>
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**Academic Advisor**

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<th>x58223</th>
<th><a href="mailto:jamato3@depaul.edu">jamato3@depaul.edu</a></th>
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</thead>
<tbody>
<tr>
<td>Justine Amato</td>
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3
Outline of Biology Curriculum

All Biology Majors Have the Following Requirements:

**Liberal Studies 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 Understanding the Past Courses

**Biological Sciences Core**
- General Biology I, II, and III for Science Majors
- Biostatistics
- Genetics

**Biology Concentration Requirements**
See page 7

**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 II
  - Sequence Two:
    - Calculus w/ Integrated Precalculus
    - Calculus w/ Integrated Precalculus II
    - Calculus w/ Integrated Precalculus III
  - Sequence Three:
    - Calculus for Mathematics and Science Majors I
    - Calculus for Mathematics and Science Majors II
  - Sequence Four:
    - Calculus for Life Sciences I
    - Calculus for Life Sciences II
  - Sequence Five:
    - Summer Calculus I
    - Summer Calculus II

*Experiential Learning Course* can be filled in several ways. We currently have two courses specifically for Biology students:
- BIO 302 - provides instruction about teaching Biology; great for students interested in being a teaching assistant in General Biology labs.
- BIO 303 - provides instruction about Biological research; great for students who are involved with lab-based research at DePaul.
- 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.

**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)

<table>
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<tr>
<th>YEAR 1</th>
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<th>YEAR 3</th>
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<tr>
<td><strong>Autumn Quarter</strong></td>
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<td><strong>Spring Quarter</strong></td>
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<td>BIO 193</td>
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<td>CHE 130/131</td>
<td>CHE 132/133</td>
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<td>LSP 112 - Focal Point</td>
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<td>YEAR 3</td>
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<td>BIO 206 - Statistics</td>
<td>BIO 260 - Genetics</td>
<td>BIO 250 – Cell*</td>
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<td>CHE 230/231</td>
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<td>CHE 234/235 or CHE 346</td>
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<td>BIO 395 - Senior Capstone</td>
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</table>

*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
- Math 147/148/149 – Calculus with integrated pre-calculus. Math 131 is not needed before taking this sequence. MAT 147 only offered in Fall; MAT 148 only offered in Winter; MAT 149 only offered in Spring. *Note: some graduate programs will not take this sequence as the calculus pre-requisite.*
- Math 150/151– Standard calculus. MAT 150/151 are each offered every quarter
- 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.
- The MAT 160/170 sequences are offered infrequently.
### Required Biology Courses by Concentration

<table>
<thead>
<tr>
<th>Core</th>
<th>Cell &amp; Molecular</th>
<th>Ecology &amp; Evolution</th>
<th>Medicine &amp; Health*</th>
<th>Microbiology &amp; Biotechnology</th>
<th>Neuroscience</th>
<th>Physiology</th>
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<tbody>
<tr>
<td>BIO 260 - Genetics</td>
<td>BIO 260 - Genetics</td>
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**Required Concentration Courses:**
- BIO 215 - Ecology OR BIO 235 Evolution
- BIO 250 - Cell Bio.
- BIO 309 - Plant Physio. OR BIO 310 - Vertebrate Physio.
- BIO 260 - Genetics
- BIO 260 - Biostatistics
- BIO 260 - Biostatistics

**One Advanced Topics Course:**
- Three Upper Level Courses From Approved List, One Must Be A Lab:
  - BIO 270 - Comparative Vert.
  - BIO 301 - Animal Behavior
  - BIO 304 - Field Methods
  - BIO 306 - Res. Meth & Applied Biostats
  - BIO 315 - Topics in Ecology
  - BIO 335 - Concepts in Evolutions
  - BIO 345 - Topics in Paleobiology
  - BIO 318 - Fish Hist. in Marine Bio.
  - BIO 319 - Topics in Beh. Parasitology
  - BIO 321 - Molecular Methods
  - BIO 325 - Paleobiology
  - BIO 332 - Population Ecology
  - BIO 333 - Concepts in Evolutions
  - BIO 345 - Topics in Paleobiology
  - BIO 352 - Intro. to Pharmacology
  - BIO 354 - Topics in Cell Motility
  - BIO 357 - Topics in Cell Bio.
  - BIO 361 - Topics in Molecular Bio
  - BIO 390 - as appropriate

**Two Additional Major Level Courses:**
- BIO 206 - General Bio.
- BIO 235 - Evolution
- BIO 310 - Vertebrate Physio.
- BIO 319 - Topics in Beh. Parasitology
- BIO 321 - Molecular Methods
- BIO 332 - Paleobiology
- BIO 333 - Concepts in Evolutions
- BIO 345 - Topics in Paleobiology
- BIO 347 - Topics in Medical Bact.
- BIO 348 - Topics in Cell Motility
- BIO 352 - Intro. to Pharmacology
- BIO 354 - Topics in Cell Motility
- BIO 357 - Topics in Cell Bio.
- BIO 361 - Topics in Molecular Bio
- BIO 390 - as appropriate

**Five Additional Major Level Courses:**
- BIO 315 - Topics in Ecology
- BIO 321 - Molecular Methods
- BIO 335 - Concepts in Evolutions
- BIO 345 - Topics in Paleobiology
- BIO 347 - Topics in Medical Bact.
- BIO 348 - Biology of Infection
- BIO 352 - Intro. to Pharmacology
- BIO 354 - Topics in Cell Motility
- BIO 357 - Topics in Cell Bio.
- BIO 361 - Topics in Molecular Bio
- BIO 390 - as appropriate

**Any five of approved biology courses (see page 12). Any must have labs.**

To review official course requirements, please see the course catalog: go.depaul.edu/catalog

*Medical school bound students are strongly encouraged to take HTH 301/302 for their anatomy and physiology pre-requisites.*

**MCAT bound students are strongly encouraged to take Health Ethics as part of their Philosophical Inquiry and PSY 105, 106 & SOC 101 for their Social, Cultural and Behavior Inquiry Domain.**

**Due to the similar nature of course content, students may not receive major credit for the BIO 201/BIO 310 class combination and the HTH 301/HTH 302 class combination. Students must choose one combination or the other. Students wishing to take both of these class combinations must know one of the combinations will count towards Open Electives.**

To review official course requirements, please see the course catalog: go.depaul.edu/catalog
Getting Started...

Declaring or Changing Your Major, Minor, or Concentration You can officially register or change your intended major, minor, or concentration in Campus Connect. This can be done by the following method: **Campus Connect >Main Menu > Self Service > Academic Planning > Change College, Major, Minor, or Concentration**

Textbooks & I-Clickers You can locate, buy and rent the textbooks your 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!

Registering & Wait list Procedures Follow this link for video tutorials on registering for classes. ([https://offices.depaul.edu/depaul-central/registration/Pages/add-drop-swap.aspx](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.

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, 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](http://csh.depaul.edu/student-resources/advising-student-services/pre-health-advising)

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 OrgSync to join and to learn more about all of the below student organizations: [http://studentaffairs.depaul.edu/involvement](http://studentaffairs.depaul.edu/involvement).

- Pre-Dental Club: depaulpredental@gmail.com
- Pre-Vet Club: depaul.prevetclub@gmail.com
- DePaul Neuroscience Club: depaulneuro@gmail.com
- DeSACNAS: desacnas@gmail.com
- DePaul Ecology, Evolution, & Physiology (DEEP): deep.depaul@gmail.com
- Red Cross Club: depaulredcrossclub@gmail.com
- Global Brigades: depaul@globalbrigades.org

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](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](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/](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.
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 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 that it might take longer to complete the degree than expected due to the required sequencing of courses. In talking with your advisor, make sure that you both understand and are comfortable with any outlined timeline for completion of the Biology program.

Transferring Courses into DePaul

Students who wish to take courses outside of DePaul and transfer them in should be aware of the policies and guidelines regarding transfer credit. Please be sure to read these policies carefully. Students also 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. 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

Supplemental Instruction and Tutoring

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. 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

Students are also encouraged to attend their Teaching Assistant’s office hours for assistance outside of class. One-on-one tutoring is also available for science and math courses. Visit the Success website for more locations and hours: https://resources.depaul.edu/student-success/tutoring/Pages/default.aspx
Bio 206 fulfills the statistics requirement, but is not applicable as a Biology elective for the Biology major or minor.

Students cannot receive credit for Bio 115 & 155

Students cannot receive credit for Bio 126 & 162

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, Justine Amato at jamato3@depaul.edu on any questions or suggestions for courses they should take to fulfill the Biology minor requirements.
**Major Field Courses and Pre-requisites (Lab courses marked with an ‘L’)**

L Bio 191 - General Biology I for Science Majors (General Biology courses can also count as SI)  
    *Pre-Req:* Mat 130

L Bio 192 - General Biology II for Science Majors (General Biology courses can also count as SI)  
    *Pre-Req:* Bio 191 w/ C- or better

L Bio 193 - General Biology III for Science Majors (General Biology courses can also count as SI)  
    *Pre-Req:* Bio 192 w/ C- or better

L Bio 201 - Human Anatomy  
    *Pre-Req:* Sophomore standing

    Neu 201 – Introduction to Neuroscience  
    *Pre-Req:* Bio 191 w/ C- or better or instructor consent

    Bio 206 - Biostatistics *(counts as Statistics credit, will not apply as a Biology major or minor elective)*  
    *Pre-Req:* Bio 191/192/193 w/ C- or better or instructor consent

L Bio 209 - Plant Biology  
    *Pre-Req:* Bio 191/192/193 w/ C- or better

L Bio 210 - Microbiology  
    *Pre-Req:* Bio 191/192/193 w/ C- or better

L Bio 215 - Ecology  
    *Pre-Req:* Bio 191/192/193 w/ C- or better

L Bio 220 - Principles of Biotechnology  
    *Pre-Req:* Bio 210 and Bio 250 w/ C- or better or instructor consent

    Bio 230 - Epidemiology  
    *Pre-Req:* Bio 206 w/ C- or better

L Bio 235 - Evolution  
    *Pre-Req:* Bio 191/192/193 w/ C- or better

L Bio 250 - Cell Biology  
    *Pre-Req:* Bio 191/192/193 w/ C- or better and Che 134 or Che 138 w/ C- or better

L Bio 260 - Genetics  
    *Pre-Req:* Bio 191/192/193 w/ C- or better

L Bio 270 - Comparative Vertebrate Anatomy  
    *Pre-Req:* Bio 191/192/193 w/ C- or better

L Bio 301 - Animal Behavior  
    *Pre-Req:* Bio 191/192/193, Bio 206, and Bio 215 or Bio 235 w/ C- or better

L Bio 302 - Student Laboratory Instruction (Counts as Experiential Learning Credit)  
    *Pre-Req:* Department consent required
Bio 303 - Introduction to Scientific Research (Counts as Experiential Learning Credit)
   **Pre-Reqs:** Course requires that student has had (or currently having) experience in scientific research.

L  Hlth 301 - Integrative Human Anatomy and Physiology A
   **Pre-Reqs:** Bio 193 and Che 134 or Che 138 w/ C- or better

L  Hlth 302 - Integrative Human Anatomy and Physiology B
   **Pre-Reqs:** Bio 193 and Che 134 or Che 138 w/ C- or better

L  Bio 304 - Field Methods for Biologists
   **Pre-Reqs:** Junior standing or above

L  Bio 306 - Research Methods and Applied Biostatistics
   **Pre-Reqs:** Bio 206 w/ C- or better

L  Bio 309 - Plant Physiology (cross-listed w/ 409)
   **Pre-Reqs:** Bio 250 w/ C- or better or instructor consent

L  Bio 310 - Vertebrate Physiology
   **Pre-Reqs:** Bio 250 w/ C- or better or instructor consent

L  Bio 311 - Histology
   **Pre-Reqs:** Bio 250 w/ C- or better

Bio 312 - Topics in Exercise Physiology (cross-listed with Bio 412)
   **Pre-Reqs:** Bio 250 w/ C- or better or instructor consent

Bio 315 - Topics in Ecology (cross-listed w/Bio 415)
   **Pre-Reqs:** Bio 191/192/193 and Bio 215 w/ C- or better

L  Bio 316 - Phycology (cross-listed w/ Bio 416)
   **Pre-Reqs:** Bio 191/192/193 w/ C- or better

L  Bio 317 - Aquatic Biology (cross-listed w/ 417)
   **Pre-Reqs:** Bio 191/192/193 and Bio 215 w/ C- or better

Bio 319 – Topics in Behavioral Parasitology
   **Pre-Reqs:** Bio 191/192/193 and Bio 215 or Bio 235

L  Bio 318 - Field Studies in Marine and Estuarine Biology
   **Pre-Reqs:** Bio 191/192/193 and Bio 215 or Bio 235 w/ C- or better

L  Bio 320 – Advanced Microbiology (cross-listed w/ 420)
   **Pre-Reqs:** Bio 210 w/ C- or better and Junior standing or above

Hlth 320 - Molecular Virology
   **Pre-Reqs:** Bio 210 or BIO 250 w/ C- or better

L  Bio 321 - Molecular Methods in Ecology and Evolution (cross-listed w/ 421)
   **Pre-Reqs:** Bio 215 and Bio 235 w/ C- or better

L  Bio 325 – Paleobiology
   **Pre-Reqs:** Bio 191/192/193 and Bio 215 or Bio 335 w/ C- or better
Bio 330 - Developmental Biology (cross-listed w/ 430)
  \textit{Pre-Reqs:} Bio 250 and Bio 260 w/ C- or better

Bio 331 – Topics in Developmental Biology
  \textit{Pre-Reqs:} Bio 330 or 360 w/ C- or better

Bio 332 - Population Ecology
  \textit{Pre-Reqs:} Bio 215 or ENV 250 w/ C- or better

Bio 333 - Mycology (cross-listed w/ 433)
  \textit{Pre-Reqs:} Bio 215, Bio 250 and Bio 260 w/ C- or better

Bio 335 - Concepts in Evolution (cross-listed w/ 435)
  \textit{Pre-Reqs:} Bio 235 or Bio 215 and Bio 260 w/ C- or better

Bio 339 - Cellular Neurobiology (cross-listed w/ 439)
  \textit{Pre-Reqs:} Bio 250 or (Psy 377 or HLTH 301) w/ C- or better

Bio 340 – Behavioral Neuroscience (cross-listed w/ 440)
  \textit{Pre-Reqs:} Neu 201 or (Bio 339 or Bio 310 or Psy 377) w/ C- or better

Che 340/341 – Biochemistry I
  \textit{Pre-Reqs:} Che 234/235 or Che 238/239 w/ C- or better

Che 342/343 – Biochemistry II
  \textit{Pre-Reqs:} Che 340/341 w/ C- or better

Bio 341 - Topics in Neurobiology (cross-listed w/ 441)
  \textit{Pre-Reqs:} Bio 340 or Bio 339 or Psy 377 w/ C- or better

Bio 342 - Cognitive Neuroscience
  \textit{Pre-Reqs:} Neu 201 or (Bio 339 or Bio 340 or Bio 341 or Psy 377) w/ C- or better

Bio 345 - Topics in Paleobiology (cross-listed w/445)
  \textit{Pre-Reqs:} Bio 191/192/193 and (Bio 215 or Bio 235) w/ C- or better

Che 346 - Principles of Biochemistry
  \textit{Pre-Reqs:} Che 232 or Che 238 w/ C- or better

Bio 347 - Topics in Medical Bacteriology (cross-listed w/ 447)
  \textit{Pre-Reqs:} Bio 210 and Bio 250 w/ C- or better and Junior or Senior biology standing

Bio 348 - Biology of Infection (cross-listed with w/ 448)
  \textit{Pre-Reqs:} Bio 210 and Bio 370 w/ C- or better

Bio 349 – Topics in Microbiology & Biotechnology
  \textit{Pre-Reqs:} Bio 210 or Bio 220 w/ a C- or better

Bio 350 - Animal Adaptations
  \textit{Pre-Reqs:} Biology Major w/ Junior or Senior Standing or instructor consent

Bio 352 - Advanced Comparative Physiology (cross-listed w/ 452)
  \textit{Pre-Reqs:} Bio 310 w/ C- or better or instructor consent
Bio 354 - Cell Motility (cross-listed w/ 450)
  _Pre-Reqs_: Bio 250, w/ C- or better and Phy 152 or 172 or 156, Mat 149 or 152 or 162 or 172 w/ C- or better

L Bio 355 - Genetic Toxicology (cross-listed w/ 455)
  _Pre-Reqs_: Bio 260 w/ C- or better

L Bio 360 - Molecular Biology (cross-listed w/ 460)
  _Pre-Reqs_: Bio 250, Bio 260 and Che 234 or Che 238 w/ C- or better

Bio 361 - Topics in Molecular Biology (cross-listed w/ 461)
  _Pre-Reqs_: Bio 360 w/ C- or better

Bio 362 - Bioinformatics for Bench Scientists (cross-listed w/ 462)
  _Pre-Reqs_: Bio 191/192/193 and Bio 260 w/ C- or better

Bio 365 - Principles of Toxicology (cross-listed w/ 465)
  _Pre-Reqs_: Bio 191/192/193 and Che 234 or Che 238 w/ C- or better

L Bio 370 - Immunobiology (cross-listed w/ 471)
  _Pre-Reqs_: Bio 250 or Bio 260 w/ C- or better

Bio 375 - Introduction to Pharmacology (cross-listed w/ 475)
  _Pre-Reqs_: Bio 250 and Bio 310 or instructor consent w/ C- or better

Bio 380 - Cancer Biology (cross-listed w/480)
  _Pre-Reqs_: Bio 250 and Bio 260 w/ C- or better

Bio 381 - Topics in Cancer Biology (cross-listed w/481)
  _Pre-Reqs_: Bio 250 w/ C- or better

Bio 385 - Mammalian Reproduction (cross-listed w/ 485)
  _Pre-Reqs_: Bio 250 and Bio 310 or instructor consent w/ C- or better

Bio 386 - Introduction to Endocrinology (cross-listed w/ 486)
  _Pre-Reqs_: Bio 250 and (Bio 310 or [Hlth 301 and Hlth 302]) w/ C- or better

Bio 290 - Topics in Biology (offered occasionally)
  _Pre-Reqs_: Sophomore Standing

Bio 389 - Research in Field Biology
  _Pre-Reqs_: Instructor Consent

Bio 390 - Special Topics (offered occasionally)
  _Pre-Reqs_: Junior or Senior standing

Bio 399 - Independent Study (worked out through individual faculty)
Email Etiquette 101

From: fgowanlo@depaul.edu
Sent: Tuesday, July 07, 2015 3:11 PM
To: Smith, Gene
Cc:
Bcc:
Subject: Advising Meeting

Dear Dr. Smith,

Hope this message finds you well. My name is Felicia, I am a sophomore biology major at DePaul, I was wondering if you would have time this week to meet with me to discuss courses for next winter quarter. I am available after 2:00pm Monday through Friday this week, whenever is most convenient for you would work for me.

Let me know what time would be best, or if I can provide any further information.

Thank you in advance, looking forward to hearing from you!

Felicia Gowanlock
DePaul University ID#1369615
773-325-8223 | fgowanlo@depaul.edu

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A nice greeting sets for a nice tone

Make sure your email address is appropriate and identifiable

Don't expect a response right away 24-48 hours at least

Always check Cc and Bcc lines to make sure you are sending it to who it's supposed to go to

Identify who you are

Identify why you are writing to them

If requesting a meeting, include availability

Include a sincere goodbye. "I" are appropriate as long as they aren't excessive

Final Checks

- Is this concise and to the point?
- Did I spell everything correctly?
- Did I use appropriate grammar?
- Is all relevant information included?
  - How is my tone?

Read this out loud!

Avoid: Bold, underline, ALL CAPITALS.
'please' and 'thank you' goes a long way
THE SENIOR “TO DO” LIST FOR GRADUATION- 2018/2019

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](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 1st)**, **Winter Quarter (January 15th)**, **Spring Quarter (February 1st)**, **Summer Session (July 15th)**

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](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](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](https://resources.depaul.edu/career-center/Pages/default.aspx)
Example First/Second Year Resume

MARIA MARTINEZ
2325 North Clifton Ave., Chicago, IL 60614
Phone: 773-325-8223 Email: mariamartinez@depaul.edu

EDUCATION

DePaul University, Chicago, IL
Bachelor of Science in Biological Sciences
Concentration in Medicine and Health
GPA: 3.3/4.0
Dean’s List Fall 2011; Spring 2016

Cristo Rey High School, Chicago, IL
GPA: 3.4/4.0

EXPERIENCE

Ann and Robert H. Lurie Children’s Memorial Hospital, Chicago, IL
January 2016 – Present
Volunteer
- Visit children in post-surgery rooms, make sure they are comfortable, build rapport, and develop bedside services
- Engage children in games, drawing, & crafts in the outpatient waiting rooms on the cardiology & surgery floors.
- Perform opening/closing procedures, such as disinfecting all toys that were used, organizing the craft cabinet, and wiping down all the tables and chairs.

CIRRUS Program, DePaul University, Chicago, IL
Summer 2016
Student Researcher
- Designed experiments to test copper sulfate concentrations on plant types for the purpose of phytoremediation
- Monitored petri dishes daily for seed germination progress when in the presence of copper sulfate
- Compiled observation data daily in lab books for analysis and interpretation
- Presented results at DePaul’s summer research symposium with poster presentation

Ray Meyer Fitness Center, Chicago, IL
Sept. 2015 – Present
Lifeguard/Swim Instructor
- Ensure the safety of swimmers during pool hours; perform opening/closing procedures
- Teach swim lessons 6 hours/week for children from ages 4 - 13; create lesson plans & set weekly goals

Chicago Park District, Chicago, IL
March 2013-August 2015
Lifeguard
- Facilitated a Child Care Program that engages children in play, crafts, and games while parents work out.
- Taught swimming lessons in a Summer Day Camp with children from 3 months to 13 years of age.
- Performed opening/closing procedures, such as wiping down tables, putting away toys, vacuuming, and cleaning changing tables.

LEADERSHIP ACTIVITIES

DePaul Pre-Med Club, Chicago, IL
Sept. 2015 - Present
Member
- Attend quarterly meetings, help to organize field trips, and collaborate and event organization
- Assisted with organizing a bake sale which resulted in raising funds of over $800 for future club field trips

SKILLS

Language: Fluent in Spanish
Certifications: CPR and First Aid certified; Certified Lifeguard through Starfish Aquatics
Computer: Microsoft Word, PowerPoint, Excel, Adobe, Facebook, LinkedIn
Example Recent Graduate Resume

John Johnson
2325 North Clifton Ave.
Chicago, IL 60614
johnjohnson@depaul.edu
773-325-8223

EDUCATION:

DePaul University
Bachelor of Science in Biology, Minor in Chemistry
Cumulative G.P.A. 3.87/4.00
Honors: Graduated Magna Cum Laude
Dean’s List (2008-2009; 2009-2010)

RESEARCH EXPERIENCE:

Rosalind Franklin University of Medicine and Science, Dr. Kyoung Joon Oh Lab
Lab Technician
Chicago, IL
June 2016 – August 2016
- Performed site-directed mutagenesis of sBAK; conducted E. coli transformations, protein overexpression, homogenization, and purification, site-directed spin labeling of sBAK, reconstitution experiments, and SDSL EPR spectroscopy (CW and DEER methodologies), and other procedural tasks toward obtaining data
- Developed critical lab skills such as: attention to details, organization of lab notebook, and ability to multitask and prioritize
- Managed inventories, ordered supplies, organized lab by preparing solutions, managed storage of DNA, bacteria, and proteins

DePaul University, Dr. Stanley Cohn Lab
Research Assistant
Chicago, IL
March 2015 - June 2016
- Participated in research on the effects of photo stimulation on movement of three Diatom species
- Isolated species from pond cultures, prepared samples, and conducted fluorescence microscopy

PUBLICATIONS AND PRESENTATIONS:

- Co-author of an abstract for the Journal of Biological Chemistry (August 2010, in press)
- Presented research on the Mechanism of Membrane-Insertion and Oligomerization of BAK via poster at the DePaul University Research Symposium (November 5th, 2016)

VOLUNTEER ACTIVITIES:

Illinois Advocate Masonic Hospital
Volunteer
Chicago, IL
Feb 2013 – June 2017
- Volunteer in the hematology and oncology department to improve quality of patient care; provide Bedside patient services
- Performed family services and child life tasks including maintaining an infection-free and safe environment

DePaul Global Medical Brigades
Volunteer
Honduras
Dec 2014 and Dec 2015
- Volunteered in health clinics in Honduras & served as a dentist’s aide by extracting teeth and performing cleanings to over 50 clinic patients ranging in age from 13-60
- Worked as medical assistant in triage, packaged medicine, and assisted pharmaceutical technician in filling prescriptions
- Handled and supervised a pilot data informatics program designed to create patient records for effective long-term care

SKILLS:

- Computer: Microsoft Word, Excel, and PowerPoint and fundamental C++ concepts
- Lab / Research: Pipetting skills, Gel and PAGE electrophoresis, western blot, DNA mutagenesis, protein purification, PCR, titration; column, paper, gas and liquid chromatography; gram and acid-fast staining, replica plating, UV-vis spectroscopy, Microscopy (brightfield, phase, DIC, and fluorescence), centrifugation, calorimetry, gas evolution, distillation, recrystallization; EPR, 1H NMR, and 13C NMR spectroscopy; mass spectrometry, infrared spectrometry, among others

EXTRACURRICULARS:

- DePaul University Division I Cross Country (2013-2014)
Example Entry-level Cover Letter

William Wang
2325 N. Clifton Ave.
Chicago, IL 60614
773-325-8223
williamwang@depaul.edu

May 2, 2017

Dear DePaul Biological Sciences Research Assistant Selection Committee,

I was recently alerted of the opening for a Research Assistant position in a Neurobiology Laboratory in your Department. After learning more about this opportunity I am excited to present my application for review as I believe I possess the qualifications, skills and experience necessary to excel in this important role.

As a recent graduate from the Biological Sciences Department at DePaul, I have a great passion for science. During my time as an undergraduate at DePaul, I fulfilled a professional goal by completing a research internship at Rosalind Franklin University in a Neurobiology lab. During my internship, I helped to collect and maintain data on experiments involved in studying Alzheimer’s disease and other brain disorders. I also helped to maintain equipment and mouse colonies for the laboratory. I am truly fascinated as to how the nervous system works, how it is built, how it operates on cellular and systems levels, how drugs affect it, and how it is damaged in neurodegenerative diseases. I believe that my experiences in my internship at Rosalind Franklin, combined with my broad-based education in Biological Sciences at DePaul, has enabled me to adapt to the changing needs of the lab quickly, and to collaborate well with lab assistants and the principal investigator. As a result of my internship training, I have developed solid skills in assisting with developing or amending study protocols, assisting with developing data collection tools, assisting with building databases, and providing general administrative support. I feel that my talents and skills would allow me to successfully serve as a Research Assistant at DePaul, and directly contribute to your research efforts.

I take a strong personal satisfaction in being able to provide laboratory staff with the support they need to conduct scientific research. I hope that we can schedule a time to meet to discuss my qualifications and the position in detail. Please feel free to contact me via phone (773-325-8223) or email (williamwang@depaul.edu) with any additional questions. I look forward to hearing from you soon.

Most sincerely,

William Wang