KEY INFORMATION FOR BIOSCIENCES
2018-2019 Academic Fair

Detailed information at https://biosciences.rice.edu/undergraduate-studies

Pre-Declaration BioSciences Advisors:
Dr. Beth Beason-Abmayr (BIOC Degrees): 326 Anderson Biological Labs; x2535; bbeason@rice.edu
Dr. Matthew Bennett (BIOC Degrees): 306 Keck Hall; x4161; matthew.bennett@rice.edu
Dr. Jamie Catane (BIOC Degrees): 130C Anderson Biological Labs; x2391; dje98@rice.edu
Dr. Amy Dunham (ENSC Degrees): 103B Anderson Biological Labs; x2792; aed4@rice.edu
Dr. Scott Egan (EBIO Degrees): 103A Anderson Biological Labs; x4913/2334; Scott.P.Egan@rice.edu
Dr. Jon Flynn (NEUR Degrees): W102 George R. Brown Hall; x4860; flynn@rice.edu
Dr. Kathleen Matthews (BIOC Degrees): 203 Keck Hall; x4871; ksm@rice.edu
Dr. Alina Novotny (BIOC Degrees): W105 George R. Brown; x4015; novotnya@rice.edu
Dr. Dereth Phillips (BIOC Degrees): 340 Anderson Biological Labs; x2343; derethp@rice.edu
Dr. Scott Solomon (EBIO Degrees): 130D Anderson Biological Labs; x2661; scott.solomon@rice.edu

Courses to take first:
The following fundamental courses are required for BioSciences upper level offerings and must be taken as prerequisites for most advanced courses. For this reason, it is important for all BioSciences (BIOC, BIOL, EBIO, NEUR) majors to take the following courses during their first year (or transfer in AP credit for them):
- BIOC 201: Introductory Biology Lecture
- BIOC 112 or NSCI 120: Introductory Laboratories (strongly recommended if interested in research, not required)
- CHEM 121/123: General Chemistry and lab (and for BIOC and BIOS majors CHEM 122/124)
- First year Biological Sciences, Ecology & Evolutionary Biology, or Environmental Sci. majors, also need to take:
  - EBIO 202: Introductory Biology II (lecture)
  - EBIO 213: Introductory Lab in EBIO (can be concurrent with BIOC 211 if class/lab times are not in conflict)

If you have AP biology credit, think about whether you feel confident and wish to take the next steps to upper level courses or would benefit from taking the introductory courses (BIOC 201 and/or EBIO 202). BIOC 300 is designed as a next step for students with AP credit to prepare them for upper-level BIOC courses.

Consult an advisor if you feel uncertain!!!

Undergraduate Research Opportunities
Undergraduate research opportunities are available and highly encouraged as an important part of a thorough education in the biological sciences. To get an early peek into the world of life-science research at Rice, consider registering for one of the freshmen local research seminars: BIOC 115, EBIO 116, or ENST 117. Undergraduates who take BIOC 112 or NSCI 120 or who have previous research experience may begin research as early as their freshman year by finding and securing a research position on a volunteer basis or for credit through the courses BIOC 310 or EBIO 306 (https://biosciences.rice.edu/undergraduate-studies).

BioSciences Opportunities OwlSpace List
On this “joinable” site we post BioSciences departmental information and various biology-related opportunities that we encounter. Examples include: Information sessions, research opportunities, summer internship programs, fellowships, jobs, study abroad, etc. This site and mailing list is a great way to join the BioSciences team and to hear about biological and biomedical research opportunities on and off the Rice campus. To join the list and view previous posts, you may log on to the BioSciences Opportunities List at http://owlspace-cem.rice.edu using your net ID and password. Go to “My Workspace”/“Membership”/“Joinable Sites”, search the list and select “BioSciences Opportunities.”

First Year Course Schedule for those considering BIOC and BIOE
What is the best course schedule (which classes to take when) for someone deciding between Biochemistry & Cell Biology and Bioengineering? The suggested courses for freshmen in BIOE and BIOC are overlapping, but there are additional critical courses to take in your freshman year to keep on track with each major. Both majors suggest strongly that you take General Chemistry and Calculus in your first year, but BIOE freshmen should also take Physics and CAAM 210. BIOC freshmen should take BIOC 201 (Introductory Biology) and may want to take an optional introductory biology lab (BIOC 112 or NSCI 120). Those deciding between the two majors may need to take “all of the above” during their freshman year.
## Requirements for Majors and Minors in Biosciences: Biochemistry & Cell Biology, Ecology & Evolutionary Biology, Biological Sciences*

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<tr>
<th>Category</th>
<th>BA BIOC</th>
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<th>BA Biol</th>
<th>BA EBIO</th>
<th>BS EBIO</th>
<th>BIOC-Minor</th>
<th>EBIO-Minor</th>
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<td><strong>Upper Level Lecture Courses in Major Area</strong></td>
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<td><strong>Broadening Upper Level Lecture Courses</strong></td>
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<td><strong>Senior Capstone</strong></td>
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*NOTE: This document was created to simplify, but not supersede, information found in the General Announcements. In the event of discrepancies, the General Announcements are to be considered the final authority on the requirements of the various majors/minors offered in BioSciences (e.g., for listed substitutions)."
# REQUIREMENTS FOR ENVIRONMENTAL SCIENCE B.S. AND B.A. AND ENVIRONMENTAL STUDIES MINOR*

<table>
<thead>
<tr>
<th>Category</th>
<th>B. A. in Environmental Science</th>
<th>B.S. in Environmental Science</th>
<th>Environmental Studies Minor</th>
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<tbody>
<tr>
<td><strong>General Prerequisites</strong></td>
<td>EBIO Concentration</td>
<td>EBIO Concentration</td>
<td>Required course: ENST 100</td>
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<td>BIOC 201, EBIO 202</td>
<td>BIOC 201, EBIO 202</td>
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<td>CHEM 121/122/123/124 or substitution</td>
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<td>STAT 280 or STAT 305</td>
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<td>PHYS 102/104 or PHYS 112 (with lab) or PHYS 126 (with lab)</td>
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<td>STAT 280 or STAT 305</td>
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<td><strong>Core Required Courses</strong></td>
<td>ENST 100/ARCH 105, ESCI 115, ESCI 107 (or 109 or 201), EBIO 213, EBIO 325</td>
<td>ENST 100/ARCH 105, ESCI 115, ESCI 107 (or 109 or 201), EBIO 213, EBIO 325</td>
<td>Introductory courses (one): EBIO 124, ESCI 101, ESCI 107, ESCI 109, ESCI 201</td>
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<tr>
<td><strong>Field Experience</strong></td>
<td>2-3 credit hours of field experience: see GA for list of approved courses</td>
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<tr>
<td><strong>Major Concentration in Ecology &amp; Evolutionary Biology</strong></td>
<td>Two courses from: EBIO 270, EBIO/ENST 323, EBIO 372</td>
<td>Two courses from: EBIO 270, EBIO/ENST 323, EBIO 372</td>
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<tr>
<td><strong>Advanced Electives</strong></td>
<td>One course from each of the following categories: Social Sciences: See GA for list of approved courses</td>
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<td>Humanities/Architecture: See GA for list of approved courses</td>
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<td>Natural Sciences/Engineering: See GA for list of approved courses</td>
<td>Natural Sciences/Engineering: See GA for list of approved courses</td>
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<td><strong>Capstone Requirement</strong></td>
<td>EBIO 495 Independent Research encouraged</td>
<td>One course from the following: ESCI 390, ESCI 391, EBIO 403 or 404, ESCI 481</td>
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<td>EBIO 495</td>
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## REQUIREMENTS FOR NEUROSCIENCE B.A. AND MINOR*

<table>
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<tr>
<th>Category</th>
<th>Neuroscience Major Natural Sciences &amp; Engineering Track</th>
<th>Neuroscience Minor Natural Sciences &amp; Engineering Track</th>
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<tr>
<td><strong>Foundation Requirements</strong>**</td>
<td><strong>Core Requirements</strong></td>
<td><strong>Project-Based Laboratory Courses</strong></td>
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<td>BIOC 201 Introductory Biology CAAM 210 Introduction to Engineering Computation CHEM 121/123 General Chem I/Laboratory II CHEM 122/124 General Chem III/Laboratory II MATH 101 Single Variable Calculus I or MATH 105 MATH 102 Single Variable Calculus II or MATH 106 PHYS 125 General Physics (with Lab) PHYS 126 General Physics (with Lab) PSYC 203 Introduction to Cognitive Psychology</td>
<td>NEUR 380/PSYC 380/BIOC 380 Fundamental Neuroscience Systems Science and Engineering Track Core Requirement: NEUR 385/BIOC 385 Fundamentals of Cellular and Molecular Neuroscience</td>
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<td><strong>Select 1 from the following:</strong> STAT 305 Introduction to Statistics for Biosciences STAT 310 Probability &amp; Statistics STAT 312 Probability &amp; Statistics for Engineers</td>
<td>BIOC 112 or NSCI 120 (recommended, not req.) BIOC 212 Intermediate Exptl Cell/Mol Neuroscience (required)</td>
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<td><strong>Select two courses from the following:</strong> BIOC 415 Experimental Physiology BIOC 417 Experimental Cell &amp; Molecular Neuroscience NEUR 310 Independent Research for Neuroscience NEUR 364 Cognitive Neuroscience Lab</td>
<td><strong>Select four courses from the following list:</strong> BIOC 129 (3 semesters), BIOC 442, BIOC 449, BIOE 492, COMP/ELEC 440, EBI 321, ELEC 475, LING 411, NEUR 301, NEUR 302, NEUR 310, NEUR/ELEC 382, NEUR/CAAM 415/ELEC 488, NEUR/CAAM 416/ELEC 489, PHIL 103, PHIL 303, PHIL 312, PHIL 358, PHIL 359, PSYC 354, PSYC 375, PSYC 432</td>
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<td><strong>Select four courses from the following list:</strong></td>
<td><strong>Select one course from the following list:</strong> LING/ANTH 411, NEUR 301, NEUR 302, NEUR 364, PHIL 103, PHIL 303, PHIL 312, PHIL 358, PHIL 359, PSYC 375, PSYC 432</td>
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<td><strong>Electives</strong></td>
<td><strong>Select from the following list:</strong> BIOC 129 (3 semesters), BIOC 442, BIOC 449, BIOE 492, COMP/ELEC 440, EBI 321, ELEC 475, LING 411, NEUR 301, NEUR 302, NEUR 310, NEUR/ELEC 382, NEUR/CAAM 415/ELEC 488, NEUR/CAAM 416/ELEC 489, PHIL 103, PHIL 303, PHIL 312, PHIL 358, PHIL 359, PSYC 354, PSYC 375, PSYC 432</td>
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**Introductory courses in CHEM, MATH, PHYS have alternates that are listed in the General Announcements.
Rice International Genetically Engineered Machine

**Who are we?** We are a competitive undergraduate team, with graduate students and a couple of professors as advisors, who participate in the International Genetically Engineered Machine (iGEM) Jamboree.

**What is synthetic biology?** Take the cliché “a cell is like a factory,” and imagine that DNA has the instructions and blueprints. Synthetic biologists put together “genetic circuits” of DNA to introduce to a cell (most often non-toxic strains of *E. coli*) so it can perform new functions!

**Who should join?** We seek undergraduate students interested in scientific research at the interface of biology and engineering. We are looking for students from BIOS, BIOE, CHBE, and students of other disciplines in Natural Sciences, Engineering and beyond! The competition includes public outreach (POLI or SOCI related); a poster, PowerPoint, and Wiki for presentation (graphic designer); and biological models in MATLAB are always a bonus (CAAM)! And if you are business-savvy (ECON), there is fund-raising and marketing.

*Keep in mind:* The competition cycle begins in late spring and ends with the annual Giant Jamboree in the fall – therefore, students interested in doing wet-lab work with us at Rice will need to make arrangements to spend the summer in Houston.

**Contact Info:**
*President:* John Luke García (jag18@rice.edu) Will Rice ’18
*Faculty Adviser:* Dr. Beth Beason (bbeason@rice.edu)

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**Rice Catalyst.** Rice’s premier Undergraduate Science Research Journal, showcases student perspectives on popular science topics and scientific research. For the past twelve years, we have been committed to fostering interdisciplinary interest in scientific writing and dialogue at Rice and beyond. We are extremely passionate about making science accessible and engaging, and we do this through a variety of written, auditory, and visual media including blog posts, podcasts, and an annual magazine publication. Outreach is very important to us: We have partnered with two high schools in the greater Houston community to provide science mentorship and research guidance, where Catalyst undergraduates interact with students and help them through the process of scientific inquiry and communication. New students are encouraged to stop by the Rice Catalyst Activities Fair booth to join the club listserv and ask questions about the club.

*All members, both new and returning, are required to attend the general retreat held in late August/early September to become more acquainted with the club logistics and other members.*

**Catalyst website:** [http://catalyst.blogs.rice.edu/](http://catalyst.blogs.rice.edu/)
**Student contacts:** Sanket Mehta (sm96@rice.edu) and Mahesh Krishna (mk58@rice.edu)
Rice University BioSciences Society (RUBS)
We are new this year! We are a group of curious students interested in the life sciences. Please join us if you are interested!

Some areas of interest for this group
- Career panels/networking sessions with alumni
- Journal/data club
- Exploration of current science news
- Scientific reading and writing practice and opportunities
- High school outreach/tutoring
- Industry/biotech information and contacts
- Mailing list for interesting local bio and biotech seminars
- Support for graduate school exploration/applications/GRE prep
- Bioethics discussions
- Science policy/advocacy
- Opportunities to share research experiences
- Study groups for the curious
- Collaboration with other science clubs (Catalyst, iGEM, BMES, etc.)

Join the interest list: https://goo.gl/forms/1zhz3WdbesKYChQf1

Rice Oceans Club is an organization dedicated to spreading awareness and appreciation for our shared marine environments through outreach and educational events on-campus and in the greater Houston community. We have regularly partnered with the Houston Museum of Natural Science, Houston Zoo, and NOAA Flower Garden Banks National Marine Sanctuary for educational volunteering opportunities. In addition, on-campus events like our yearly "Pledge Against Plastic" photo-campaign involves a variety of students expressing their support for marine conservation with small changes to daily plastic consumption habits.

Like us on Facebook: https://www.facebook.com/RiceOceansClub/
Follow us on Instagram: @RiceOceansClub
Join the listserv by emailing your name and email address to: riceoceansclub@mailman.rice.edu

Rice Environmental Society (RES) is an umbrella organization for environmental and sustainability-related groups on campus. RES allocates funds to different sustainability campaigns across campus and organizes a conference to bring environmental research presentations and companies to the Rice community.

Some other clubs within the RES umbrella: Rice Urbanists, Texans for Climate Change Action, Rice Wildlife Conservation Corps, Rice Environmental Club, and Real Food Revolution.

For more information: https://sustainability.rice.edu/res or contact Meredith Brown (mjb11@rice.edu).