

# Undergraduate Biology Information Meeting

February 1<sup>st</sup>, 2019

# Overview

1. Introductory Videos (5 min)
2. Events in Spring 2019: Lee (5 min)
3. Research Shadowing: Lee (5 min)
4. BS-MS: Klein (5 min)
5. BS-FB: Moran (5 min)
6. BA-MBA: Sime (5 min)
7. Internship in Biology: Hallman (5 min)
8. Co-Op in Biology: Kwangwon (5 min)
9. Q&A (15 min)

We may not address all questions in one hour.

- If you have any question that is not addressed today, you may talk to me after meeting or send me an email;
  - [kwangwon.lee@rutgers.edu](mailto:kwangwon.lee@rutgers.edu)
- If you have any suggestion to improve your learning experience in our program better, please email me.

# Undergraduate Biology Events in Spring 2019

- Research Shadowing application period, February 5-8.
- Biology Day, May 4.
- Biology Chair Cup 4v4 Soccer Tournament, May 16.
- Biology Retreat, May 17.
  - Please contact me if you want to be a team leader or a unit member (those who attended a previous retreat).
- Peer Mentor for 2019-2010.

# Research Shadowing

- Students will apply to research laboratories (up to three) in the Biology Department. This year, we have 11 laboratories available for you (brief description of each lab available below). After a successful interview with the faculty member, students will spend few hours per week (1-4 hours depending on the agreement between the student and the professor) in the lab for interacting with the professor and graduate students in the laboratory.
- [https://biology.camden.rutgers.edu/research-shadowing\\_spring/](https://biology.camden.rutgers.edu/research-shadowing_spring/)

Biology BS/MS  
Accelerated Program

# Why do an accelerated program?

- Save time
  - Take 3 graduate level courses during senior year and double count them towards BS and MS degrees
- Save money
  - Graduate courses taken during senior year are charged at undergraduate prices

# How do I apply

- The ideal time to apply is the spring of your junior year... however seniors can be admitted as well
- During your senior year, you will formally apply to the graduate program
- As an RUC undergrad, we will waive the GRE requirements for your application



# For more information

- <https://graduateschool.camden.rutgers.edu/prospective-students/accelerated-degree-program/>
- Contact the Biology graduate program director
  - Eric Klein
  - eric.a.klein@rutgers.edu

# MS in Teaching

One-year program for STEM teaching certification

<https://iee.camden.rutgers.edu/master-of-science-teaching-mst-program/>

A close-up photograph of a laboratory setting. A purple pipette tip is positioned over a multi-well plate, dispensing a small amount of purple liquid into one of the wells. The plate is filled with many other wells, some of which contain a light blue liquid. The background is blurred, showing a laboratory environment with various pieces of equipment.

# Biology & Forensic Science

Program Director: Kimberlee Moran

[k.moran@camden.rutgers.edu](mailto:k.moran@camden.rutgers.edu)

SCI-212



# Program Options

- 5yr Accelerated BS/MSFS
  - Begin forensic classes immediately
  - Very structured program
  - Summer classes required
  - Graduate work starts Junior Yr
  - Able to do a bigger, more in-depth research project
  - Faster, cheaper
  - Contact Prof Moran for full course plan
- 6 yr typical BS/MSFS
  - Major in biology
  - Minor in forensic science
  - Can conduct independent research as undergrad
  - Learning abroad option
  - More relaxed but longer and more expensive
  - Minor requirements & MSFS course plan available at <https://forensicscience.camden.rutgers.edu>





# Career Options

- DNA analyst
- Serological screening
- Trace analyst
- Environmental evidence
- Entomology
- Medical school for pathology
- New technologies (proteomics, lipidomics, metabolomics)
- Federal labs (FBI)
- State labs (State Police)
- Medical Examiner labs
- Municipal labs (Philadelphia)
- Private labs (NMS, Bode)
- Research (academic or R&D)
- Applications outside of forensic science



School of Business-Camden

Accelerated BA/MBA Program

Information Session

## Do I qualify for the Accelerated BA/MBA program?

### *You must...*

- Be a matriculated Biology major student.
- Have a cumulative GPA of 3.3 or higher.
- Have completed all undergraduate coursework requirements prior to submitting internal application for the BA/MBA program.
  - Including the Business Administration minor
- Be enrolled in six undergraduate credits each semester of senior year.
- Complete senior review & graduation plan with Academic Advisor.
- Submit internal BA/MBA application to the MBA office at the end of Junior year.

# Undergraduate Coursework Requirements

- Complete with a “B” or better the six courses listed below:
  - Microeconomics
  - Macroeconomics
  - Calculus for Business Economics or Unified Calculus
  - Statistics (Intro to Stats II or Principles & Practices of Quant. Bio)
  - Introduction to Financial Accounting
  - Management Accounting
  
- Complete with a “B” or better by the end of Junior year four of the following Business courses\*:
  - Principles of Finance
  - Organizational Behavior
  - Operations Management
  - IT & Project Management
  - Principles of Marketing

\*If a student earns a grade less than a “B” in any of the above five courses, they are required to take the course at the MBA level



## Program Highlights

- During senior year of undergraduate studies:
  - Students are permitted to complete **four** MBA courses and pay undergraduate tuition for these courses.
- Once the student is officially admitted into the MBA program:
  - Students receive **six** MBA course waivers.
  - Students must complete the remaining **eight** MBA courses.
  - Must complete the eight MBA courses within **one** Academic Year.

### *Accelerated Dual-Degree BA/BS-MBA Curriculum Worksheet*

**Important notes:**

- A total of 18 courses or 54 credits are required to complete the Rutgers-Camden MBA program.
- Students may select **four** additional course waivers from the courses not showing as required or waived. In selecting course waivers, students must have grades of B or better from the corresponding undergraduate courses to qualify for a waiver. The remaining courses must be completed within the MBA program.
- To qualify for graduation, students must **not** earn more than two C (including C+) grades in the program or a cumulative GPA below 3.0.

REQUIRED COURSES		Waived/ Required	GRADE	Semester/Year
<b>FOUNDATION COURSES</b>				
53:135:500	Managerial Economics	Waived		
53:135:501	Managerial Skills	Required		
53:135:502	Quantitative Skills	Waived		
53:010:502	Accounting for Financial Reporting			
<b>CORE COURSES</b>				
53:010:503	Accounting for Managerial Decisions <b>Prerequisite: Accounting for Financial Reporting</b>			
53:390:506	Financial Management <b>Prerequisite: Managerial Economics &amp; Quantitative Skills</b>			
53:716:513	Operations Management: Productivity and Quality <b>Prerequisite: Quantitative Skills</b>			
53:620:505	Leadership & Managing Human Capital			
53:620:506	International Business Environment			
53:623:510	Managing Projects and IT			
53:630:508	Marketing Management			
53:010:565	Financial Statement Analysis <b>Prerequisite: Accounting for Financial Reporting</b>	Required		
53:533:501	Corporate Social Responsibility, Ethics & Law			
53:716:502	Business Analytics <b>Prerequisite: Quantitative Skills</b>	Required		
53:620:672	Strategic Management: Integrating the Enterprise <b>Capstone Course</b>	Required		
COURSE #	ELECTIVE COURSES 3 MBA elective courses required. Modules options available below.	Required	GRADE	Semester/ Year
53:		Required		
53:		Required		
53:		Required		

# Concentrations available in the MBA program

The MBA program offer Focused Learning Modules options in the following areas:

- Digital Marketing
- Strategic Leadership
- Business Analytics
- Investment & Private Wealth Management

# *Biology Internships & Co-op*

**Cheryl A. Hallman, Assistant Dean / Director**  
**[challman@camden.rutgers.edu](mailto:challman@camden.rutgers.edu)**

# *Biology Internship Course*

## *Internship Course Requirements*

- Course is offered, Fall, Spring & Summer
- 3 Credit Course
- Biology Elective Credit
- Work 120 Hours
- Attend 7 Internship Classes (3 in summer)
- Complete Coursework as assigned

# *Biology Internships*

## *Sample Internship Employers*

- EMSL
- Cooper University Hospital
- Marine Mammal Stranding Center
- Fox Chase Cancer Center
- CHOP (Children's Hospital of Philadelphia)
- Saddler's Woods Conservation Association
- Penn Vet Working Dog Center
- Sure - BioChem Laboratories, LLC
- Center for Aquatic Sciences at Adventure Aquarium
- Merck
- Johnson & Johnson
- Philadelphia Zoo
- Dow
- Monell Chemical Senses

# *Finding Internships*

## *Biology Co-op*

- Co-Op in Biology (50:120:498):
- Work full time in a company (4-6 months)
- Earn 3 to 12-credits
  - Only up to 3-credits will be counted as elective course credits.

# *Biology Co-op*

## *First Steps*

- **Apply to the course one semester before the desired academic semester.**
- **Secure a Co-op Position**
  - Students can register for the course only after being selected by the industry partner to their co-op program. The minimum full time work hour is four months.
- **Credits**
  - Credits are determined by the instructors depending on the need of the students, number of hours worked at the co-op and the request by the industry partners.



# *Finding Internships*

## *Biology Co-op*

- Some students need to have 12 credits to receive a scholarship.
- Some industry partners request a student to be a full time student.
- Part-time - Some students do not have to maintain the full time student status, and the industry partners do not require a full-time student status.

# *Biology Internships*

## *Potential Co-op Employers*

- Merck
- Johnson & Johnson
- Dow
- Monell Chemical Senses
- Procter & Gamble
- GlaxoSmithKline
- Fox Chase Cancer Center
- Children's Hospital of Philadelphia
- Thermo Fisher Scientific
- PSEG

# *Finding Internships*

## *Where to Start*

- Career Center
  - Help finding internship
  - Resume Writing
  - Interviewing
  - Academic Credit



# *Finding Internships*

## *Next Steps*

- Start **NOW**. You want to secure your internship by the 1<sup>st</sup> week of classes
- Create a resume and have it critiqued by the Career Center e-mail to [careercenter@camden.rutgers.edu](mailto:careercenter@camden.rutgers.edu)
- Log onto RaptorLink & search for internships
- Prepare for Interviews using Interview Stream
- If you get an internship and want to take the Arts & Science Internship course, contact the office for an [Approval Form](#)
- If you need extra help, meet with Cheryl Hallman or for assistance with finding an internship or co-op.
- Call to make an appointment 856-225-6046 or stop by



Q&A