

See The End of *BioLog* for a list of Spring 2010 Courses  
And Laboratory Wait list Guidelines

# BioLog

## A Newsletter for Biology Undergraduates

October 2009

### OPPORTUNITIES FOR UNDERGRADUATES

*In this section we will provide lists of potential opportunities for study abroad, internships, research openings, etc.. We do caution that these come with no guarantees from the Biology Department; we cannot check on the quality of each item listed. This section is for your information and we strongly urge you to check into the details of any opportunity you find appealing to be sure that it meets your needs and expectations.*

#### **SCHOLARSHIPS AND FELLOWSHIPS**

*(Please ask Deborah Herholtz in room 114 LSC about information on any specific scholarships or fellowships listed in BioLog.)*

For other information about scholarship opportunities, visit the Office of Scholarship Programs website at <http://financialaid.syr.edu/scholarships.htm> and the College of Arts & Sciences Advising Services scholarship link at <http://thecollege.syr.edu/student/scholarships.htm>.

Columbia University's School of International and Public Affairs offers an **MPA in Environmental Science and Policy**. The early deadline for application with fellowship consideration is November 1. The second deadline is Jan 15. For more information visit: <http://www.columbia.edu/cu/mpaenvironment>

The **University of Notre Dame Environmental Research Center** has two locations: East in upper Michigan and West in Montana. Both have summer research and course opportunities for undergraduates. BIOS 35502-01: Practicum in Field Environmental Biology has been offered since 1976. It provides training in aquatic, terrestrial, and

environmental biology through lecture and field experience with a variety of aquatic and terrestrial organisms and natural habitats. It also includes an independent research project developed by each student under the direction and with the assistance of a department of Biological Sciences faculty member, graduate student or visiting faculty member. At the end of the summer course, each student prepares an oral presentation and a research paper presenting the results of the summer's field research. For more information visit <http://underc.nd.edu>

**2009-10 Mark and Pearle Clements Intern Scholarships** here at S.U. make possible a few of the most important, unusual, and creative internships that otherwise would not be financially possible. Previous awards have ranged from \$2,500 to \$7,000. The application deadline is in January. For more information visit <http://students.syr.edu/career/news/clements2009.htm> or contact Rhona Lee Jones, Career Services Internship Coordinator, 235 Schine (443-3616).

**Peer Mentoring.** Interested in mentoring students from disadvantaged backgrounds? There are peer mentor positions available for the 2009 – 2010 academic year. They are part-time with shifts Monday through Friday between

9am to 6pm. The wage is \$10.00/hour. If you are interested call 315-498-2428 or email [cobby@sunyocc.edu](mailto:cobby@sunyocc.edu).

Those interested in **Summer Research Opportunities for Undergraduates** will have an opportunity to apply for summer programs at a variety of institutions. Deadlines for most applications for summer study and research are in February or early March. There are a large number of **Research Experiences for Undergraduates** (REU) programs at different institutions throughout the US. For a complete list visit:

[http://www.nsf.gov/crssprgm/reu/reu\\_search.cfm](http://www.nsf.gov/crssprgm/reu/reu_search.cfm). A large part of the January issue of *BioLog* will be devoted to some of these opportunities before the February deadlines, but it helps to plan ahead.

An example of the summer undergraduate research programs is the one at **Albert Einstein College of Medicine**. It is a 9 week program with a \$3,000 stipend, a \$500 travel allowance and free housing. The deadline isn't until February, 2010, but early application is encouraged. Applications will be accepted starting in November, 2009. Visit <http://www.aecom.yu.edu/phd/index.asp?surp> for program information and application forms.

Also, approximately 25 students from around the world will be accepted to the 10-week summer REU program at **Cold Spring Harbor Lab** to work with senior Laboratory staff members on independent research projects, specifically in areas of: Cancer Biology, Neuroscience, Plant Biology, Cellular and Molecular Biology, Genetics, Macromolecular Structure and Bioinformatics. The stipend is \$4,000. Program dates for 2010 are June 6 - August 14. Deadline for receipt of applications is January 15, 2010. Visit <http://www.cshl.edu/URP/> for information.

Each year a group of graduating seniors is selected to receive the honor of being **Syracuse University Scholars**. Nominations for seniors to be Syracuse University Scholars are due on or before the last Friday in November each year. Each nomination should include: 1) two formal letters of recommendation from faculty, 2) an official transcript, 3) a sample of the nominee's

writing, 4) a personal statement (evaluate and describe your intellectual growth and how experiences here have influenced it), and 5) a current resume. This material should be given to Dr. Russell ([jrussell@syr.edu](mailto:jrussell@syr.edu)), the Biology Department Chair, no later than the middle of November so he can write a statement to support your nomination.

Some math, science or engineering sophomores or juniors will be nominated for **Goldwater Scholarships** (\$7,500) this year by Syracuse University. Sophomores receive a two-year scholarship. Those interested will need to submit a 1,000 word essay that (1) describes their professional aspirations, (2) describes research or other activities associated with their interests, and (3) discusses a significant issue or problem in their field of study. The essay and a letter of recommendation are due October 31. Please talk with Dr. Wolf (room 110C LSC; [llwolf@syr.edu](mailto:llwolf@syr.edu); 443-3956) if you are interested in this scholarship or call 443-3133.

Students of Hispanic background who are U.S. citizens may be eligible for support through the **Hispanic Scholarship Fund**. A variety of scholarships are available. For more information visit <http://www.hsf.net/Scholarships.aspx?id=424>.

**Seniors**, the Centers for Disease Control and Prevention and the Association of Public Health Laboratories offer **graduate fellowships for careers in public health** for next year. Fellows are placed in local, state and federal public health labs. For more information visit [http://www.cdc.gov/phtrain/training\\_programs.html](http://www.cdc.gov/phtrain/training_programs.html). Application deadlines are early in 2010.

Founded in 1887 by Louis Pasteur and located in the heart of Paris, the **Institut Pasteur** is one of the world's leading biomedical research organizations. With more than 130 laboratories and 2,500 people on campus, it is a vibrant, international community devoted to basic scientific research primarily in the area of infectious disease. Thanks to the generosity of the **Paul W. Zuccaire Foundation**, the Pasteur Foundation of New York has created a program for U.S. undergraduates to conduct summer internships at the Institut Pasteur in Paris. For more information visit [www.pasteurfoundation.org](http://www.pasteurfoundation.org)

Applicants must 1) be undergraduates with a strong interest in biosciences and biomedical research; 2) have completed two full years of college course work by the time the internship commences; and 3) have not received their undergraduate degree at the time of application. Knowledge of French or desire to learn it is advisable. A complete application is due by mid-December.

**Seniors, the Howard Hughes Medical Institute** awards 80 fellowships for full time study toward the Ph.D in the biological sciences. Awards are for 5 years for \$28,000/year. Areas include biochemistry, statistics, cell biology, genetics, immunology, mathematical biology, molecular biology, physiology and others. The deadline is early in November. For an application write to Hughes Fellowship Program, National Research Council, 2101 Constitution Ave, Washington, DC 20418.

**Seniors, the National Science Foundation (NSF)** aims to ensure the vitality of the human resource base of science, mathematics, and engineering in the United States and to reinforce its diversity by offering approximately 900 **graduate fellowships** each year, including awards for women in engineering and computer and information science. Fellowships provide three years of support for graduate study leading to research-based master or doctoral degrees in the fields of science, mathematics, and engineering supported by the NSF. Fellowships are intended for students in the early stages of their graduate study. GRE results are required. Anyone interested in these NSF fellowships should contact the Office for Sponsored Programs here at SU (443-2807).

### Fall Scientific Paper Session

The thirty-sixth Annual **Fall Scientific Paper Session of the Rochester Academy of Science** will be hosted by Roberts Wesleyan College on Saturday, October 31, 2009. This session provides a forum for Academy members, the collegiate community and others engaged in scientific research to present the results of their investigations in an atmosphere that promotes discussion and interaction. Undergraduate students attending local colleges and

universities are particularly encouraged to attend and to present papers. Faculty and graduate students are also asked to participate and share their research results and ideas on a diversity of subjects. For more information contact Dr. William L. Hallahan ([whallah3@naz.edu](mailto:whallah3@naz.edu)). The deadline for Abstracts is Friday, October 9.

### Plan for Studying Biology Abroad

Studying biology abroad can be a fantastic learning experience, but it is important to plan ahead. SU Abroad is one place to look (<https://suabroad.syr.edu/>). Several biology majors, for example, have spent a junior semester in **Australia**. SU Abroad has a list of approved courses for The University of New South Wales, University of Queensland and the University of Wollongong. Note that courses must be junior or senior level for major credit.

Another possibility is to spend a summer or semester abroad through the Organization for Tropical Studies (**OTS**, <http://www.ots.duke.edu>). OTS has undergraduate programs for study in **Costa Rica** and in **South Africa** at the Kruger National Park. Some OTS courses are based on field research, so they would be particularly suitable for BS majors interested in Ecology and Evolution or the BS with a Focus on Environmental Sciences. Approved courses with research can be used toward BS lab requirements.

The **SEA Semester** is offered at Woods Hole Oceanographic Institute (<http://www.sea.edu/>). This can be either a summer (8 week) or semester (12 week) program of combined class work and research during a cruise at sea. Biology majors could receive credit toward lab requirements by selecting a research project concerned with Biological Oceanography.

Biology majors interested in OTS programs or the SEA Semester should consult with Dr. Wolf (110C LSC 443-3956; [llwolf@syr.edu](mailto:llwolf@syr.edu)) for more details about these programs.

Anyone interested in any study abroad should contact Dr. Kerr (238 LSC, 443-3985; [mskerr@syr.edu](mailto:mskerr@syr.edu)) about how to plan to meet

major requirements with these unique

opportunities **before** they enroll.

## ANNOUNCEMENTS

### ADVISING UPDATES

Early Registration for Spring, 2010 will begin **Wednesday November 11**. You need to obtain clearance from your advisor during the two weeks prior to the start of registration, or sometime between **October 28** and **November 11, 2009**. Plan to contact your academic advisor for an appointment starting October 14.

The **Biology Course Listing for Spring 2010** is at the end of this issue of *BioLog*. The times and locations for each course are given so you can start to plan a schedule for next semester.

As time for advising approaches you also will find up-to-date information on Spring Biology courses in the **Brief Descriptions for Spring Courses**. These will be printed and available in room 114 LSC and on the Biology Undergraduate Programs page: <http://biology.syr.edu/> Select the link to Undergraduate Studies.

Here are some reminders about important features of the undergraduate degree programs:

1. BS candidates need to be sure to complete one of the two Core concentrations, either Bio 326 and 327 or Bio 345 and another 300-level or higher course in the Core area of Ecology and Evolution (approved by petition). BA candidates should take all four Core courses. Bio 327 will be taught next semester.

2. Two 3 credit hour laboratory courses are required for the BS as well as an additional laboratory experience. Biology 460 (Research in Biology) can be used for up to 4 credits toward the BS or BA degrees. Three of the credits can be used for one 3 credit hour lab, and the fourth credit can be used for the BS degree "additional laboratory experience." Next semester the 3 credit hour labs are: Bio 405 (Intro to Field Biology Lab), Bio 422 (Bioinformatics for Life Scientists), Bio 425 (Cell and Developmental Lab), Bio 455 (Physiology Lab), Bio 464 (Applied

Biotechnology), Bio 465 (Molecular Biology Lab, two sections), and Che 477 (Biochemical Methods for Structural Biophysics).

3. BS candidates need to complete the communication skills requirement. Next semester these courses will include any section of Bio 421 (Junior/Senior Seminar) as well as Bio 428 (Capstone Seminar in Environmental Science), Bio 405 (Intro to Field Biology Lab), Bio 425 (Cell and Developmental Lab), Bio 455 (Physiology Lab), Bio 465 (Molecular Biology Lab) and Bio 464 (Applied Biotechnology). Any one of these courses will complete the requirement.

4. Any 300-level or higher course for majors beyond those required for the Core may be used as electives for the 22 total credits required for the BS upper division or the 12 total credits required for the BA upper division.

5. Seniors in the BS degree program with Focus on Environmental Science must take Bio 428 – Capstone Seminar for Environmental Science.

### REGISTRATION NOTES

**Seniors** register first. This is important to be sure you meet all the requirements for your Biology degree.

Even though you should register as soon as possible, the 3 credit hour labs will be closed after a few students register. This is done to be sure seniors have primary access to these limited enrollment courses. Be sure to add your name to the **Wait List** for a lab course during your registration time. Also, put your name on the wait list for a second choice for a 3 credit hour lab. Be sure each lab you select will fit your schedule. You will be contacted about registration for the lab.

## Methods Used to Register Students in Labs

The Biology Department has developed Guidelines to manage advising and enrollment in all upper division labs in Biology. **Please see the end of *BioLog* for a copy of the Guidelines.**

### How do you wait list?

Use the following steps (visit <http://its.syr.edu/myslice/help/> for a tutorial):

1) ENTER the class number. Complete enrollment sections for lab and recitations if required.

2) SUBMIT request.

3) ADD STATUS. You will see ERRORS FOUND in red. Click on the text Errors Found to resolve the error. Read the message then click CANCEL. You will return to the Add Class screen.

4) CLICK on the **OK to Waitlist?** Checkbox.

5) SUBMIT request

6) ADD STATUS will update to SUCCESS/MESSAGES. Click on the text to read the message.

Note that you will **not** be automatically enrolled into a waitlisted class. You must enroll after you are notified about your status.

## Senior BS Degree Checklist

Seniors in the Biology BS programs can check their degree progress by using the **Biology BS Degree Checklist**. This can be found in room 114 LSC (to the left as you enter) and on our web site. It is a brief summary (one page) of all the requirements for the Biology BS degree. There is a separate checklist for the Biology BS with a Focus on Environmental Science.

All seniors who wish to receive a BS degree will need to use a checklist to petition for their degree next semester. Use it now to be sure of your courses to register, and keep it until next semester to hand in with your transcript and BS petition.

## Academic Rule 13.4.2 About Minors

Twenty credits are required for a Minor in Biology with 12 of these at the 300 level or above. Rule 13.4.2 is: "At least 15 of the credit hours for a minor must be Syracuse University letter-graded coursework." Someone who received 8 credits for advanced placement introductory biology, and then took 12 credits of 300 or higher Biology courses, would be 3 credits short by this rule. Keep in mind that up to 6 credits of 300 level or above courses can be petitioned for courses taken in other related disciplines, such as some Psychology courses or courses from Math, Chemistry, Physics or ESF.

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*coming up...*

Pizza with the Chair  
Mid-term  
Academic Drop Deadline  
**Advising for Registration**  
Spring Registration

Tues 10/20 @12:30, 106 LSC  
Wednesday 10/21  
Wednesday 10/28  
**Wed 10/28 - Wed 11/11**  
Wed 11/11 - Fri 12/20

Spring 2010		BIOLOGY COURSE LISTING			Spring 2010	1102	
123	Wiles	General Biology II					
		001	Gen. Bio. Lecture	Giff. Aud.	MW	12:45-2:05	
		002	Gen. Bio. Lecture	Grant Aud.	MW	3:45-5:05	
124	Wiles	General Biology II Lab M003-M026 (students enroll in 1 section per week):					
				3 sections	T	9:30-12:20	
				3 sections	T	2:00-4:50	
				<u>2 sections</u>	<u>T</u>	<u>5:00-7:50</u>	
				2 sections	W	9:30-12:20	
				3 sections	W	2:15-5:05	
				<u>3 sections</u>	<u>W</u>	<u>5:15-8:05</u>	
				3 sections	Th	9:30-12:20	
				<u>3 sections</u>	<u>Th</u>	<u>2:00-4:50</u>	
				2 sections	F	9:30-12:20	
200	Wiles/Staff	Selected Topics: General Bio (consent required)					
		001		126 LSC	TBA	TBA	
		002		126 LSC	TBA	TBA	
		003		126 LSC	TBA	TBA	
217	Sweet	Anatomy & Physiology II					
		001	Lecture	HBC Kitt	MW	12:45-2:05	
		002	Lab	310 LSC	T	8:00-10:00	
		003	Lab	310 LSC	T	10:20-12:20	
		004	Lab	310 LSC	W	8:00-10:00	
		005	Recitation	300 LSC	M	8:00-9:20	
		006	Recitation	300 LSC	Th	5:00-6:20	
		007	Recitation	300 LSC	F	12:45-2:05	
		008	Lab	310 LSC	W	10:35-12:35	
		009	Recitation	200 LSC	Th	5:00-6:20	
300	Sweet	Anatomy & Physiology II for Bio Majors:					
		001	Lecture	HBC Kitt	MW	12:45-2:05	
		002	Laboratory	310 LSC	M	8:00-11:00	
327	Erdman/Russell	Genetics & Cell Biology II			001 LSC	TTH	9:30-10:50
355	Tupper	General Physiology			105 LSC	TTh	8:00-9:20
360	Wiles	Biology Laboratory Assistant (consent of instructor required)					
405	Segraves	Intro to Field Bio Lab			306 LSC	TTh	2:00-3:20
409	Garza	001	General Microbiology	011 LSC	MWF	11:40-12:35	
		002	Gen Micro Lab	208 LSC	MW	12:45-2:05	
		003	Gen Micro Lab	208 LSC	MW	2:15-3:35	
415/615	Fridley	Conservation Biology			214 LSC	TTh	12:30-1:50
419	Belote/Wolf	Jr/Sr Thesis Seminar			214 LSC	T	5:00-6:00
421	Faculty & topic as listed	Jr./Sr. Seminar:					
	Starmer	001	Ecology & Evolutionary Biology	283 LSC	TTh	9:30-10:50	
	Hemphill	002	Natural History of Medicinal Plants	156 LSC	TTh	9:30-10:50	
422	Welch	001 Lec	Bioinformatics for Life Scientists	300 LSC	M	12:45-1:40	
		002 Lab	" " " "	105 LSC	W	5:15-9:15	
424	Kerr	001	Comp. Vertebrate Bio	214 LSC	MWF	11:40-12:35	
		002	Comp. Vert. Bio Lab	306 LSC	M	2:15-5:30	
		003	Comp. Vert. Bio Lab	306 LSC	W*	2:15-3:35	
					* optional lab help section		
425	Pepling	Cell & Developmental Lab			214 LSC	M &	12:45-1:40
				316 LSC	W	12:45-4:45	
428	Ritchie	Capstone Sem: Environmental Science			435 LSC	T	11:00-1:30
455	Sweet	001 Sec	Physiology Lab	011 LSC	T	2:00-3:20	

	002 Lab	" "	310 LSC	Th	12:30-4:30
460 Staff		Research in Biology	(As agreed upon by faculty & student)		
464/664 Raina, S.	001 Sec	Applied Biotechnology Lecture	126 LSC	MWF	11:40-12:35
	002 Lab	Applied Biotechnology Lab	206 LSC	T	12:30-3:45
465/665 Raina, S.	001	Molecular Biology Lab	011 LSC	M &	12:45-1:40
			206 LSC	W	12:45-4:45
Raina, R.	002	Molecular Biology Lab	011 LSC	T &	12:30-1:25
			206 LSC	Th	12:30-4:30
490 Staff		Independent Study (proposal & consent required)			
495 Staff		Distinction Thesis in Biology	(Dept. consent - J. Belote or L. Wolf)		
499 Staff		Biology Thesis	(As agreed upon by faculty & student)		
501 Fondy		Biology of Cancer	105 LSC	TTh	9:30-10:50
503 Pepling/Maine		Developmental Biology	011 LSC	TTh	11:00-12:20
576 Chan/Cosgrove		Biochemistry II	011 LSC	MWF	9:30-10:25
615/415 Fridley		Conservation Biology	214 LSC	TTh	12:30-1:50
664/464 Raina, S.	001 Sec	Applied Biotechnology Lecture	126 LSC	MWF	11:40-12:35
	002 Lab	Applied Biotechnology Lab	206 LSC	T	12:30-3:45
665/465 Raina, S.	001	Molecular Biology Lab	011 LSC	M &	12:45-1:40
			206 LSC	W	12:45-4:45
Raina, R.	002	Molecular Biology Lab	011 LSC	T &	12:30-1:25
			206 LSC	Th	12:30-4:30
688 Staff		Biological Literature	(As agreed upon by faculty & student)		
690 Staff		Independent Study (with proposal & permission of instructor)			
700 Fridley/Erdman		ST: Graduate Research Seminars	106 LSC	T	3:30-4:20
787 Raina, R.		Functional Genomics	TBA	TBA	TBA
793 Fridley		Plant Ecology	TBA	TBA	TBA
795 Starmer/Uy		Speciation	TBA	TBA	TBA
997	Masters Thesis				
998	Degree in Progress (GRD)				
999	Dissertation				

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**Other Course Areas of Potential Interest to Biology Majors**

College of Arts & Sciences: Chemistry, Anthropology, Earth Sciences; College of Engineering: Bioengineering & Neurosciences, Civil Engineering; College of Environmental Science & Forestry: Applied Mathematics, Environmental & Forest Biology

Revised 9/14/09

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## **Academic Advising And Wait List Guidelines**

The following from the Syracuse University web site enunciates the framework for advising in the Biology Department.

“Academic Advising is an essential component of a Syracuse University education.

The University is committed to providing the individual advice and assistance that students need at every step throughout their degree programs.

A successful system of academic advising is highly dependent upon a shared commitment of students, faculty, and staff to the process and the availability of timely, accurate information.

**Students** are responsible for scheduling, preparing for, and keeping advising appointments; for seeking out contacts and information; and for knowing the basic requirements of their individual degree programs.

**Students** bear the final responsibility for making their own decisions based on the best information and advice available and, ultimately, on their own judgment.”

### **Wait List Guidelines**

The following guidelines have been adopted by the Biology Department to ensure the fairest possible treatment of our majors as they attempt to enroll in our advanced Biology laboratory courses. Current demand each semester for our laboratory courses exceeds the capacity for the labs so we have instituted a wait list procedure for assigning students to laboratory sections.

All advanced lab (300 level and above) enrollments will be assigned from wait lists generated at registration. We are required to let one student, the first to register, enroll in each lab course; all others will be placed on wait lists.

It is the responsibility of each student to be aware of these guidelines. Lack of knowledge will not be a valid argument for avoiding the guidelines.

#### **Goals:**

1. To ensure that all Biology/Biochemistry majors are able to enroll in a timely manner in labs required for graduation
2. To allow students as much choice as possible of which labs they take.
3. To give our majors high quality laboratory experiences.

#### **Constraints:**

The primary constraint is the number of spaces available in lab courses each semester. This derives from limits on staffing- both faculty and TA.

Each lab section has a limit in number of students- generally 24.

## **Guidelines**

We will follow the following guidelines in assigning students on waitlists to laboratory sections:

1. 3 credit upper division labs and 1 credit upper division labs will be treated as separate sets of wait lists, with each set subject to the following additional guidelines.
2. In consultation with their advisors, students will place their names on wait lists for a minimum of 2 lab courses for both the 1 and 3 credit labs (3 wait lists if they are trying to enroll in 2 3-credit labs in the same semester). Students should be sure the waitlisted lab(s) fit their schedule.
3. Students who appear on only one wait list or who have circumstances that REQUIRE a particular lab must provide to the Associate Chair a written, quality rationale for being given preference for that lab. Such quality rationales might include documented requirements for a post-graduate program or documented schedule conflicts for all other labs.
4. Students who only appear on 1 wait list and have not provided a quality rationale will be placed in a lab after students who appeared on at least 2 wait lists have been given permission numbers
5. 2-3 spaces will be left vacant in each lab until the start of classes for emergency cases.

## **Procedures, in order, for assigning students to labs from the wait lists:**

1. Seniors with quality rationales will be given permission numbers for that lab; if the number of seniors in their last semester exceeds the capacity of the lab, then spaces will be allocated by lottery. Rationale for juniors to be given priority must include reasons they cannot take the course during their senior year.
2. Seniors in their last semester or 7th semester seniors in the BS program who have not yet been able to enroll in a lab will be assigned next.
3. If more seniors are on a wait list for a lab section than can be accommodated in the lab, then permission numbers will be assigned by lottery, except for those with a quality rationale who will have been admitted as a result of #1.
4. Seniors not getting into one lab as a result of the lottery will be assigned to their other choice unless #1-3 above left no vacant spaces.
5. We assume that 1-4 will take care of all seniors needing a lab to graduate. If that is not the case, then the remaining seniors will be assigned to a lab with open places meeting at the same time.
6. Juniors will be assigned to labs that have open places. We will first put them in a lab in which they were on the wait list; if none is available we will offer a lab that does have space. Juniors meeting the prerequisites for a lab will be given preference for that lab.
7. Open spaces in labs after 1-6 above will be offered to seniors who are on the wait list, but have already fulfilled all lab requirements for graduation.
8. Permission numbers will be given out shortly after scheduled registration ends (about 7 days after registration starts) and must be used before the last day of finals in that semester. Unused permission numbers after that date will be invalid and cannot be reissued except following the rules in #9.

9. Any open spaces available on the first day of class will be filled by the laboratory instructor from students still trying to get into the class by appearing at the first class of the semester. At this time preference will be given to seniors needing a lab to graduate, seniors in their 7th semester who have not taken a lab, and finally juniors.

10. Any complaints about lab assignments **MUST** be registered before the end of the semester prior to the start of the lab.