

Course Information

Semester & Year: Fall 2024
Course ID & Section #: BIOL-1-E8271
Instructors name: Julie Kelly (lecture and lab)

Course units: 4

Lecture (Face-to-face):

Day and Time: Monday and Wednesday 1:15 pm – 2:40 pm
Place: Humanities Building – Room HU 112

Lab (Face-to-face):

Day and Time: Tuesday 2:00 pm - 5:10 pm
Place: Science Building, Room SC 108

Study Sessions (optional):

Where: Science Building, Room SC 108
When: Tuesday 1:00 pm to 1:45 pm

Instructor Contact Information

Office hours: One-on-one meeting by arrangement
Email address: julie-kelly@redwoods.edu

Catalog Description

An introductory course in life science dealing with basic biological concepts including molecular and cell biology, metabolism, heredity, evolution, ecology, natural history, and biodiversity.

Course Student Learning Outcomes (*from course outline of record*)

1. Relate the mechanisms of evolutionary change to the production of biological diversity.
2. Describe attributes of life and how cells fulfill these characteristics.
3. Apply the process of science to critically evaluate observable phenomena.

Educational Accessibility & Support

College of the Redwoods is committed to providing reasonable accommodations for qualified students who could benefit from additional educational support and services. You may qualify if you have a physical, mental, sensory, or intellectual condition which causes you to struggle academically, including but not limited to:

- Mental health conditions such as depression, anxiety, PTSD, bipolar disorder, and ADHD
- Common ailments such as arthritis, asthma, diabetes, autoimmune disorders, and diseases
- Temporary impairments such as a broken bone, recovery from significant surgery, or a pregnancy-related disability
- A learning disability (such as dyslexia, reading comprehension), intellectual disability, autism, or acquired brain injury
- Vision, hearing, or mobility challenges

Available services include extended test time, quiet testing environments, tutoring, counseling and advising, alternate formats of materials (such as audio books or E-texts), assistive technology, on-campus transportation, and more. If you believe you might benefit from disability- or health-related services and accommodations, please contact [Student Accessibility Support Services \(SASS\)](#). If you are unsure whether you qualify, please contact SASS for a consultation: sass@redwoods.edu.

SASS office locations and phone numbers

Eureka campus

- Phone: 707-476-4280
- Location: Student Services Building, first floor

Student Support Services

Good information and clear communication about your needs will help you be successful. Please let your instructor know about any specific challenges or technology limitations that might affect your participation in class. College of the Redwoods wants every student to be successful.

The following online resources are available to support your success as a student:

[CR Online Learning Support](#)

Tech support, laptop loans, guides to using Canvas, installing Office 365 for free, and more.

[Library Articles & Databases](#)

Find the best library databases for your research.

[Online Tutoring Resources](#)

Participate in tutoring over Zoom.

Community College Student Health and Wellness

1. National Suicide Prevention Lifeline

If you are in distress or are with someone at risk right now, call or text the National Suicide Prevention Lifeline.

Call the National Suicide Prevention Lifeline
1-800-273-TALK (8255)

Text the National Suicide Prevention Lifeline
741-741

2. Timely Care

When you're not feeling well physically or distressed mentally, Timely Care can offer the help you're looking for in just a few quick taps. Students can schedule an appointment anytime via phone, video, and chat. [Log in or set up an account with Timely Care.](#)

3. Mental Health Counseling

Students should text, email, or fax Shawna Bell directly for scheduling and/or services.

- Text: 707-496-2856
- Email: shawnabmft@gmail.com
- Fax and voicemail: 707-237-2318

4. Wellness Central

Resources, tools, and trainings regarding health, mental health, wellness, basic needs and more designed for California community college students, faculty and staff are available on the California Community Colleges [Wellness Central](#).

Counseling

[Counseling and Advising](#) can assist students in need of academic advising and professional counseling services. Call, email or stop by one of our offices to make an appointment!

Counseling and Advising office locations and contact info

Eureka campus

- Phone: 707-476-4150
- Location: Student Services Building, first floor
- Email: counseling@redwood.edu
- Hours: Monday through Friday, 9am to 4pm. Summer hours may vary

Basic Needs Center

[The Basic Needs Center](#) provides for the health and safety of students by providing access to healthy food, financial resources, and referrals to safe and secure housing. [Submit a request for services and information.](#)

Basic Needs Center contact info

- Phone: 707-476-4153
- Email: the-grove@redwoods.edu

Learning Resource Center

The Learning Resource Center includes the following resources for students:

1. Library Services

[Library Services](#) promotes information literacy and provides organized information resources.

2. Multicultural and Equity Center (MCE)

The [Multicultural and Equity Center](#) is a dynamic and inclusive place that supports all students in their academic and personal journeys at the college. We do this by creating community, home away from home, and a safe place for cultural expression, cross-cultural learning, access to college and dignity resources, and social justice work opportunities. The MEC is committed to retention and student success by offering activities related to leadership development, student connectedness and student equity. We are a student-centered program that fosters respect for all people.

3. Academic Support Center

The [Academic Support Center](#) offers tutoring and test proctoring for CR students.

4. Student Tech Help

[Student Tech Help](#) provides students with assistance around a variety of tech problems.

Extended Opportunity Programs and Services (EOPS)

[Extended Opportunity Programs and Services](#) (EOPS) provides services to eligible income disadvantaged students including: textbook awards, grants, career academic and personal counseling, transportation assistance, tutoring, laptop, calculator and textbook loans, priority registration, graduation cap and gown, workshops, and more!

TRiO Student Success Program

The TRiO Student Support Services Program provides eligible students with a variety of services including academic advising, career assessments, assistance with transfer, and peer mentoring. Students can apply for the program with the [Eureka TRiO office](#) or the [Del Norte TRiO office](#).

Veterans Resource Center

The [Veteran's Resource Center](#) supports and facilitates academic success for Active Duty Military, Veterans and Dependents attending CR through relational advising, mentorship, transitional assistance, and coordination of military and Veteran-specific resources.

CalWORKS

California Work Opportunity & Responsibility to Kids ([CalWORKs](#)) provides supportive services to student parents with children under the age of 18, who are receiving cash assistance (TANF benefits), to become self-sufficient. Services include: transportation assistance, basic student supplies, tutoring, priority registration, laptop and calculator loans, career, academic, and personal counseling, and more!

Evaluation & Grading Policy

Assessment

Your performance in the course will be assessed based on your execution of the following requirements:

Lecture

- 2 Midterm exams
Midterm exams will cover material from lectures, OpenStax Concepts of Biology reading, Lecture Discussions, and labs. Exams will consist of short answer, multiple choice, matching, and true/false. There are no make-up exams, unless you have a verifiable, unavoidable, and extreme circumstance.
- Final Exam
- Canvas on-line lecture discussions.
- Lecture Participation

Lab

- Lab Reports
- Lab Quizzes

Late Work

You will lose 20% within the first week after the assignment is due. You will lose 50% after one week. You will lose all assignment points after taking the exam covering that specific material.

Points breakdown

Lecture		
	2 Midterm Exams (150 points each)	300 pts
	Final Exam	150 pts
	Lecture Discussion (19 x 3)	
	(Two Lecture Discussions subtracted)	57 pts
	Lecture Homework	40 pts
	Lecture Participation (26 x 2)	
	(Two Lecture Participation Activities subtracted)	48
Lab		
	Lab Reports (14 x 20)	280 pts
	(One lab report subtracted)	
	Lab quizzes (12 x 10)	
	(One lab quiz subtracted)	120 pts
	Total	995 points

Your course percentage score = (your total points ÷ 995) * 100

(Example: total of 1000 points means $(870 \div 1000) * 100 = 87\%$, Grade = B+)

Letter Grades

I will use the following scale to determine the letter grade you earn in my class.

100 – 93% = A	89.9 – 87% = B+	79.9 – 77% = C+	69.9 – 60% = D
92.9 – 90% = A-	86.9 – 83% = B	76.9 – 70% = C	< 59.9% = F
	82.9 – 80% = B-		

Fall 2024 Dates

Date	To Remember
August 30	Last day to add a class
September 2	Labor Day Holiday (district wide closure)
September 6	Last Day to Drop & Receive a Refund
September 8	Last Day to Drop w/out a “W”
September 9	Census Date (20% of class)
October 31	Last Day to Petition to Graduate & Petition for Certificate

November 1	Last Day for Student/Faculty Withdrawal
November 11	Veteran's Day Holiday (District Wide Closure)
November 25-26	Fall Break (No Classes)
November 27-29	Thanksgiving Holiday (District Wide Closure)
December 14-20	Final Examinations
December 20	Semester Ends
December 27	Grades Due
January 3	Grades Available for Transcript Release

Excused Withdrawal

Students who have experienced extenuating circumstances can complete & submit the Excused Withdrawal Petition to request an Excused Withdrawal (EW) grade instead of the current Withdrawal (W) or non-passing (D, F & NP) grades. The EW Petition is available from the Admissions and Records Forms Webpage. Supporting documentation is required

Other Business

- **Repeatability rules:** Each non-successful attempt at a course (D, F, NP, and W grades) is counted and students will have only three attempts (initial registration and two repeats) to successfully complete a class. A fourth attempt may be allowed by an approved petition and only in documented situations of circumstances beyond the control of the student. This will be “grandfathered”, which in this case means that every electronic grade symbol we have for a student from 1985 forward will be used to calculate whether or not a student will be allowed to repeat a class.
- **The CR Nursing Program's "Repeatability Rule":** Students must earn a cumulative 2.5 GPA in Bio 2, Bio 6, and Bio 7 in order to apply to the CR nursing program. If you pass these classes with C's, you will not earn a 2.5 GPA. However, if you pass a class with a C, you cannot retake it at CR to improve your grade. The only way you can retake a class at CR is if you fail it. Keep this in mind when deciding whether or not to drop one of these 3 biology courses.

Academic dishonesty

In the academic community, the high value placed on truth implies a corresponding intolerance of scholastic dishonesty. In cases involving academic dishonesty, determination of the grade and of the student's status in the course is left primarily to the discretion of the faculty member. In such cases, where the instructor determines that a student has demonstrated academic dishonesty, the student may receive a failing grade for the assignment and/or exam and may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct ([AP 5500](#)) is available on the College of the Redwoods website. Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the [2023-2024 College Catalog](#) and [CR Board and Administrative Policies](#).

AI Use Class Policy

Generative AI tools, such as ChatGPT and Google's Bard, are likely to be widely used in the workplace moving forward. It's important for you to understand how to use them ethically and effectively. For that reason, in this class, you will sometimes be invited to use such a tool in the completion of an assignment. In this class, using generative AI tools is not cheating if the outputs are screened by you for accuracy, bias, appropriateness, and fidelity to your perspective.

Disruptive Behavior

Student behavior or speech that disrupts the instructional setting will not be tolerated. Disruptive conduct may include, but is not limited to: unwarranted interruptions; failure to adhere to instructor's directions; vulgar or obscene language; slurs or other forms of intimidation; and physically or verbally abusive behavior. In such cases where the instructor determines that a student has disrupted the educational process, a disruptive student may be temporarily removed from class. In addition, the student may be reported to the Chief Student Services Officer or designee. Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the [2023-2024 College Catalog](#) and [CR Board and Administrative Policies](#).

Inclusive Language in the Classroom

College of the Redwoods aspires to create a learning environment in which all people feel comfortable in contributing their perspectives to classroom discussions. It therefore encourages instructors and students to use language that is inclusive and respectful.

Canvas Information

- Log into Canvas at [My CR Portal](#)
- For help logging in to Canvas and general tech help, visit [Student Technical Support](#)
- Once you're logged in to Canvas, you click on the Help icon on the left menu
- Canvas online orientation workshop: [Canvas Student Orientation Course](#)

Setting Your Preferred Name and Pronouns in Canvas

Students have the ability to display personal pronouns and an alternate first name in Canvas. Students may change their pronouns on their own in Canvas (Account :: Settings :: Edit Settings). To request a change to your preferred list name, contact [Admissions & Records](#). Your Preferred Name will only be listed in Canvas; this does not change your legal name in our records. See the [Student Information Update Form \(pdf\)](#).

Emergency Procedures / Everbridge

College of the Redwoods has implemented an emergency alert system called Everbridge. In the event of an emergency on campus you will receive an alert through your personal email and/or phones. Registration is not necessary in order to receive emergency alerts. Check to make sure your contact information is up-to-date by logging into [WebAdvisor](#) and selecting 'Students' then 'Academic Profile' then 'Current Information Update.'

Please contact Public Safety at 707-476-4112 or security@redwoods.edu if you have any questions. For more information visit [Redwoods Public Safety](#).

In an emergency that requires an evacuation of the building anywhere in the District:

- Be aware of all marked exits from your area and building
- Once outside, move to the nearest evacuation point outside your building
- Keep streets and walkways clear for emergency vehicles and personnel

Do not leave campus, unless it has been deemed safe by the campus authorities.

To learn more about campus-specific Emergency Procedures, click on the links below.

Policies for General Biology

Our contract

This syllabus is a contract between us.

My assumptions about you

- You are here to learn, and you are motivated to truly master the content.
- You understand that you are responsible for your own learning. The degree to which you LEARN the content is entirely up to YOU and the time you are willing and able to put into the class.
- You will regularly check email, Canvas Announcements, Canvas Discussions, and Canvas Assignment Feedback for communications about this class.

Your assumptions about me

- I am fully committed to helping you learn about biology.
- I will offer prompt and valuable feedback to guide your progress.
- I will provide engaging, relevant, and creative activities to help you master the course content.
- I will provide regular communication about this class through email, Canvas Announcements, Canvas Discussions, and Canvas Assignment Feedback.

Class participation and Attendance policy

All of us in the class, you, me, your peers, have a responsibility to create an environment in which we can all learn from each other. I expect everyone to participate in class so that we can all benefit from the insights and experiences that each person brings.

Lecture

Lectures are face-to-face. We will meet twice a week.

You are responsible for the material discussed during lectures. This class moves rather quickly and covers a lot of material.

- You are responsible for the detail covered in lectures. You can also use online sources to review the material covered in lecture and lab. However, online sources could provide less detail or way too much detail than is required for this class.
- You may also read the textbook to gain the content in this class. However, the textbook covers many topics in much more detail than we have time for in this class.
- Lecture study guides for each lecture will be provided in the Canvas modules.

Lecture Discussions

- After each lecture, students will participate in online **Canvas Lecture Discussions**.
 - Each student will ask one question about the lecture material. This could be a question that they have about the lecture material, or it could be a question that they think would be a good exam question.
 - Then each student will answer one other students' question.
 - The professor will also answer questions and submit comments in the Lecture Discussion. The professor's comments are meant to help students determine the detail expected in answers to exam questions. (This is a great resource to study for the exams.
 - **2 lecture discussions** will be dropped and will not be considered in the total calculation of the final grade.

Lecture Exams

- Exams will cover lecture and lab material.
- There will be 2 Midterm Exams and 1 Final Exam.
- Exams will be taken Face-to-face in the lecture classroom.
- Exams will include (not limited to) multiple choice, matching, true/false, and short answer questions.
- The best way to study for exams is to:
 1. answer questions on lecture study guides,
 2. ask and answer questions in lecture discussions (inquiry-based learning)
 3. review comments left by professor in the lecture discussions,
 4. make flash cards for vocabulary and test yourself, and
 5. attend study session.

MAKE-UP EXAMS ARE ONLY OFFERED WITH A WRITTEN MEDICAL EXCUSE and must be taken within one week of the scheduled exam. Make-up exams will be entirely essay questions that are not the same as the ones on the regularly scheduled exam.

Lab Stuff

- You will need a three-ring binder for your lab notebook with some line paper and colored pencils for your notes.
- Print lab procedures found on Canvas.
- Lab Reports will be due at the beginning of the next lab.
- Lab quizzes will cover the previous lab and will be taken at the beginning of every lab.
- Lab quizzes are open lab notes. While taking the lab quizzes, you may use your lab report and any notes that you took during the lab.
- **One lab report and lab quiz** will be dropped and will not be considered in the total calculation of the final grade.

Illness Protocols:

- 1) If you become sick, please stay at home until you feel better.
- 2) One lab report and lab quiz will be dropped and will not be considered in the total calculation of the final grade so that you can stay home and get better. Students can attend the study sessions to catch up on the material that they missed.

Communication Guidelines

I welcome you to contact me.

- **CR email** - The best way to reach me is through Canvas email in the Canvas Help tab. I will check email every day and respond within 24 hours (except weekends).
- **Study sessions** once a week. They are optional. However, this is the time to ask questions. I encourage all students to attend these study sessions. At these study sessions, there will be specific group activities to help learn the material and we will review the types of questions that will end up on the exams.
- **Canvas ANNOUNCEMENTS Tab** – Check Announcements on Canvas regularly. This is where I will provide information about exams, study guides, and assignments. I recommend that you set up your Canvas site to inform you of new Announcements. If I need to get information to the whole class quickly, I will put the information in an announcement. If you have a question about an assignment, you can post a response to an announcement.
- Students have the legal rights that prevent information from being disclosed to anyone (including parents/guardians) without the student's prior written consent.

Student feedback policy

This class involves face-to-face lectures and face-to-face labs. You will be required to participate in multiple threaded discussion forums. You will also be required to submit lab reports and essays.

You will find feedback on the Submission Details page on Canvas:

1. View Feedback – See comments that were placed directly on the assignment files submitted
2. Show Rubric – See the lab report answer keys and exam answer keys
3. Comments box

I tend to add a great deal of constructive comments. My goal is to help students learn how to answer science questions as well as learn the General Biology content.

All grades are entered into Canvas. You can also expect assignments to be graded within 2 weeks of being submitted.

CANVAS

We will be using Canvas, the official Learning Management System (LMS) of College of the Redwoods extensively this semester.

1. The class workflow is organized in **MODULES**. DO NOT rely on the To Do list or the Grades Tab to organize your class work schedule.
2. If there is content you are looking for but can't find, PLEASE email me ASAP. There are probably other folks looking for the same thing.
3. New modules will show up at the **BOTTOM** of your module list. All new modules will be published the weekend before. All old modules will remain available for you throughout the course.

Necessary Computer Skills

This General Biology course will require some computer skills. Before beginning, make sure you can:

- navigate the course Learning Management System (Canvas)
- receive and respond to your CR email (This means you need to CHECK your CR email!)
- download and upload files from/to Canvas
- use a word processor program (such as Microsoft Word or Google Docs)
- watch and or download videos on Canvas.

It is your responsibility to meet the technological demands of the course, which may often include **troubleshooting** technological adventures.

Required Materials

1. The lecture textbook for this class is ***OpenStax Concepts of Biology***, a **FREE** and open text, built by OpenStax College textbooks. You can access this text through the OpenStax website, <https://openstax.org>. If you would prefer, you can purchase a paper version through the website or the CR bookstore. The lecture material for this class will closely follow this textbook.
2. A three-ring binder for your lab notebook.

3. Printed labs procedures provided in the Canvas Module for that lab.
4. A method for taking notes.

Technology Requirements (computer, other hardware, and software)

To participate in the online portion of this class, you will need **laptop or desktop-based** computers, which meet the following requirements ([CR's Laptop Lending Library](#)):

- **Supported browsers:** Latest version of [Firefox](#) and [Chrome](#)
- A **stable** internet Connection

- **Portable Devices:** You can use recent model portable devices (such as Android or iOS phones & tablets) for *some* things in this class. If you do decide to use your portable device for *some* of your class work, use the **free Canvas app** (called “Canvas by Instructure”) available in iTunes (for iOS) and the Google Play Store (for Android).
 - **Do not** try to connect to Canvas using a web browser on a portable device. Your experience with Canvas will be a lot better using the app.

- **High-speed internet:** You need to have reliable access to the internet at least two times a week for 16 weeks.

- **Software Requirements:** It is important that you set yourself up for success by making sure that you have the necessary software in order to participate fully in the course. Please make sure that you have the following set up by the first week of class:

- **Browsers** - You will need to use the most recent version of one of the following browsers in order to best access the course and activities; Mozilla Firefox (10 or higher), Chrome (54.0.2840.99 m or higher), or Safari (1.2 or higher). Do not use Internet Explorer as it does not work properly with Canvas.
- **Word Processing Software** - You need Microsoft Word or a compatible software program in order to create Word or Word compatible documents.
 - All students at CR can use Office 365 (Word, PowerPoint, Excel, and OneNote) **FREE** with a valid @mycr.redwoods.edu or @redwoods.edu email account. Go to MyCR Portal.
 - There are free options such as [Google docs](#) (this requires a gmail account) or [OfficeLibre](#).

Confirm your presence in the classroom

Confirm your presence in this General Biology class by attending lecture on **Monday, August 26th, 2024, from 1:15pm to 2:40pm in Humanities Bldg, Room HU 112.** If you do not attend lecture on Monday, August 26th, you will be dropped from the class so that another wait listed student can be added.

Technology Support

You are welcome to email the instructor to ask for technology support. But keep in mind her primary job is to help you learn BIOLOGY. Be ready to troubleshoot technological adventures and utilize all resources available to you.

Before contacting Technical Support, please visit the [Online Support Page](#). For password issues with Canvas, Web Advisor or your mycr.redwoods.edu email, contact [Technical Support](#) or call 707-476-4160 or 800-641-0400 ext. 4160 between 8:00 A.M. and 4:00 P.M., Monday through Friday.

Course Expectations

This four-credit hour class will require at least 9 hours per week just to gain content and then time to study the material on top of that. One hour of studying for every “in-class” hour is 18 hours per week if you want to succeed. You will need to attend lecture and take good notes; carefully read textbook chapters when something is unclear; participate in online discussions about lecture content; interpret data and results from lab experiments; work as a team in a face-to-face lab; and take 3 lecture exams.

Conscientiousness, attention to details, and skills in reading, and writing are critical for success.

You can do it!

Fall 2024 Bio 1 Tentative Schedule				
Week		Lecture Topic	OpenStax Textbook Concepts of Biology	Laboratory
1	M 8/26	Syllabus / Life and Science	Ch 1: Introduction to Biology	Lab: Data Analysis
	W 8/28	Introduction to Chemistry	Ch 2: Chemistry of Life	
2	M 9/2	Labor Day Holiday		Lab: Chemistry of life
	W 9/4	Chemistry of Life	Ch 2: Chemistry of Life	
3	M 9/9	The Cell	Ch 3: Cell Structure and Function	Lab: Microscopes and cells
	W 9/11	The cell Membrane Membrane Transport	Ch 3: Cell Structure and Function	
4	M 9/16	Energy / Glycolysis	Ch 4: How Cells Obtain Energy	Lab: Diffusion and osmosis
	W 9/18	Cellular Respiration	Ch 4: How Cells Obtain Energy	
5	M 9/23	Photosynthesis	Ch 5: Photosynthesis	Lab: Cellular Respiration
	W 9/25	DNA Structure and Replication	Ch. 9 Molecular Biology	
6	M 9/30	Protein Synthesis	Ch. 9 Molecular Biology	Field Trip on CR campus
	W 10/2	Review		
7	M 10/7	Exam 1		Lab: DNA Structure and Protein Synthesis
	W 10/9	Mitosis / Cancer	Ch 6: Reproduction at Cellular Level	
8	M 10/14	Meiosis / Sex	Ch 7: Cellular Basis of Inheritance	Lab: Mitosis and Meiosis
	W 10/16	Mendelian Genetics	Ch 8: Patterns of Inheritance	
9	M 10/21	Human Inheritance	Ch 8: Patterns of Inheritance	Lab: Mendelian genetics
	W 10/23	The Process of Evolution by Natural Selection	Ch 11: Evolution and Its Processes	
10	M 10/28	Other Mechanisms and Evidence of Evolution	Ch 11: Evolution and Its Processes	Lab: Human inheritance
	W 10/30	Review		
11	M 11/4	Exam 2		Lab: Natural Selection
	W 11/6	Speciation	Ch 11: Evolution and Its Processes	
12	M 11/11	Veteran's Day Holiday		Lab: Systematics
	W 11/13	Diversity: Prokaryotes and Protists	Ch 13: Diversity of Microbes and Protists	
13	M 11/18	Diversity: Fungus and Plants	Ch 13: Diversity of Fungi / Ch 14: Diversity of Plants	Lab: Epidemiology
	W 11/20	Diversity: Animals	Ch 15: Diversity of Animals	
	M 11/25	Thanksgiving Holiday		
	W 11/27	Thanksgiving Holiday		
14	M 12/2	Animal Body Systems	Ch 16: Animal Structure and Function	Lab: Animal Bodies
	W 12/4	Ecology	Ch 19-21: Ecology	
15	M 12/9	Ecology	Ch 19-21: Ecology	Field Trip on CR campus
	W 12/11	Review		
16	W 12/18	FINAL EXAM: Wednesday 1:00pm -3:00pm		