### Biology A

#### Molecular Biology

<table>
<thead>
<tr>
<th>Teacher</th>
<th>Erin Crews (K8)</th>
</tr>
</thead>
</table>
| **Office Hours** | Wednesday 3:30- 5:00 pm  
Tuesday and Thursday at Lunch  
I am also available before/after school or lunch by appointment just let me know what works for you |
| **Phone** | (541) 790-5178 |
| **Email (the best way to reach me)** | crews_er@4j.lane.edu |
| **Text Message Alerts** (rates may apply - check with parent/guardian) | Text @bf926 to 81010 |
| **Class website**  
(My website can be accessed from the CHS home page - under students, then teacher websites - address may change) | [http://www2.chs.lane.edu/~crews_er/Erin_Crews_Science/Home.html](http://www2.chs.lane.edu/~crews_er/Erin_Crews_Science/Home.html) |
| **Grade Access** | Synergy student portal will show grades for classes as well as other important class information |
| **Grading Standards** | This class is based off the Next Generation Science Standards which can be found at [http://www.nextgenscience.org/sites/ngss/files/HS%20LS%20DCI%20combined%206.13.13.pdf](http://www.nextgenscience.org/sites/ngss/files/HS%20LS%20DCI%20combined%206.13.13.pdf) |

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Si necesita más información en Español sobre esta clase, por favor comuníquese con María Ladona al 541-790-5151 o por correo electrónico [schaad_ma@4j.lane.edu](mailto:schaad_ma@4j.lane.edu).
**My Philosophy -**

I believe that every student in my class should be given the opportunity to succeed. I am eager to help any student who needs additional assistance (whether that be before, during, or after school). I have extremely high expectations for every student in my class and I love using technology to enhance your learning!

**Course Description & College/Career Preparation:**

In this class you will be learning and practicing different methods that will help to develop your critical thinking and inquiry. We will focus on the Ecological side of Biology, looking at how organisms interact with each other and the environment. These skills will help prepare you for advancement in science, and achieve state requirements for graduation. This class will prepare you for life after high school as well. We will be using Cornell Note Taking, critical reading strategies, marking the text and many other techniques that will help you on your path to a career or college after high school. This class will be challenging at times, but know that I will help you succeed.

**Grading**

*Grades Available Through Synergy Student Portal -*

Grades updated every two weeks (99% of the time)

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class Work</td>
<td>50%</td>
<td>In-class work and Activities, Homework Assignments, Labs/Papers, Projects, Edmodo Weekly Assignments</td>
</tr>
<tr>
<td>Tests/Quizzes</td>
<td>30%</td>
<td>Tests and Quizzes (may include online quizzes)</td>
</tr>
<tr>
<td>Interactive Notebook</td>
<td>15%</td>
<td>The interactive notebook is a spiral notebook which contains all the cornell notes, reflections, and reinforcements for science - it is your most powerful tool to study with!!!</td>
</tr>
<tr>
<td>Participation</td>
<td>5%</td>
<td>Participation points come from being to class on time, and doing what is required and expected during class.</td>
</tr>
</tbody>
</table>

Grades will be broken down into the following categories:

100% - 90% = A  89% - 80% = B  79% - 70% = C  69% -60% = D  <59% = F
### Molecular Biology Content Calendar

<table>
<thead>
<tr>
<th>UNIT</th>
<th>≈ Week</th>
<th>TOPICS</th>
<th>Textbook Chapter Coverage</th>
</tr>
</thead>
</table>
| **Biology Overview & Biochemistry** | 1-2    | Introductions & Class Information  
Interactive Notebook & Note skills  
Laboratory Safety  
Safety Contract  
Characteristics of Life  
Scientific Methods  
Basic Chemical Structure  
Organic Macromolecules | Appendix B: A12-A13  
1.3  
1.1-1.2, Appendix B: A8-A9  
2.1  
2.3-2.4 |
| **Cell Structure & Function** | 3-4    | Cell Theory  
Cell Structure & Function  
Microscope Techniques  
Cell Transport & Communication | 7.1  
7.2  
Appendix B: A14-A15  
7.3-7.4 |
| **Cellular Energy**      | 5-6    | Energy & ATP  
Photosynthesis  
Cellular Respiration | 8.1  
8.2-8.3  
9.1-9.3 |
| **Cell Division & Mendelean Genetics** | 7-9    | Cell Growth & Reproduction  
Cell Cycle  
Meiosis  
Introduction to Genetics  
Patterns of Inheritance  
Monohybrid Crosses  
Sex-linked Crosses  
Dihybrid Crosses  
Pedigrees | 10.1  
10.2-10.3  
11.4 (pgs 323-237)  
11.1-11.2  
11.1-11.3, 14.1  
11.2 (pgs 313-316)  
pg 395  
11.2 (pgs 316-317)  
14.1 (pgs 396-397), 14.2 |

*Please be aware that this syllabus is a working document and may be subject to change*
Textbook:

We were fortunate enough to be part of a research study at CHS that allowed us to get new Biology textbooks. For all work done in class, students will be able to access the classroom set of textbook. If you need a textbook for home *Please let me know before checking out a textbook from the library.*

Required Technology:

We will be using edmodo as a required website for electronic homework. There is a free app available for smart phones. You can access the internet from the library and I have a computer designated for student use in my room as well. Let me know if you need help finding technology access.

Required Materials (you are expected to have them with you EVERYDAY)

*STUDENT PLANNER WILL BE USED IN CLASS EVERYDAY!!!! MAKE SURE TO KEEP IT WITH YOU AND BRING IT TO CLASS - WORTH POINTS!!!*

1. 3-ring binder with college rule notebook paper/or accordion folder
2. Spiral Notebook (for Biology NOTES ONLY)
3. Pen(s),
4. Pencil(s),
5. one box of Colored Pencils (must bring to class)
6. Glue Stick or tape
7. Positive Attitude :)

Please see me if you can’t afford supplies!!!

*Note: The science department charges a $15 fee per science course per trimester. Let Mrs. Crews or Ken in the finance office know if you cannot pay the required fee.*
Expectations

I will expect students to:

★ **Be respectful.** Respect your teacher, classmates, and living organisms in a positive way! NO HATEFUL OR OPPRESSIVE COMMENTS, LANGUAGE, OR GESTURES WILL BE TOLERATED IN THIS CLASS.

★ **Be prepared** – Come to class ready to learn. This includes bringing pencil, paper, book, homework, and being on time!

★ **Be in their seats and working when the bell rings.** Everyday we have Warm-Up activities to reinforce what we learned the previous day. EVERYONE should be working on this assignment by the time the bell rings. If you are tardy, you will still be responsible for the warm-up points and may need to make them up.

★ **Communicate** your needs or situation with me. I understand that life can be hectic and that you may have a good reason for missing class or an assignment. Please, please communicate with me so we can figure out how you can succeed in this class!

★ **Do your best** - Always do your best work - I know for everyone that won't be an A. I want you to be successful - but I realize that science can be tough - SEE ME FOR HELP!!!!

★ **Use Technology Appropriately!!!** All Cell Phones or Electronic Devices. (this includes headphones and earbuds) must be turned off and put away during “tech-off” times. Students will be allowed to use these devices during certain “tech-on” activities.

★ **Treat Guest Teachers (Substitutes) with respect** I realize that sometimes you might not like a sub, but I still expect you to follow my class expectations and treat the sub with respect. Once I am back, I am happy to hear complaints about any subs.

You can Expect Me To:

★ **Treat every student with respect.**
★ **Come to class everyday excited and ready to teach.**
★ **Return your assignments as soon as possible and update grades online as soon as possible**
★ **Be available.** I am willing to help with any issue regarding this class or life in general. I will do my best to be here when you need me!
★ **Help you learn Biology !!!** That’s what I love to do!
Policies

★ Attendance/Tardiness

Teachers will take attendance in the first 10 minutes of class. Students who arrive after the bell and within these 10 minutes will be marked tardy. Within these 10 minutes, if a student arrives AFTER the teacher takes attendance, they will be sent to the office for a late slip. After the first 10 minutes of class, the student goes directly to the office for a late slip. Student must have the late slip when they return to class.

★ Absences

Truly it is important to be in class - we cover a lot of material! It is also important that parents/guardians call and excuse absences. I use this information to determine whether or not the student can make up assignments or participation points. To excuse an absence, parents should call the school (790-5102) as soon as possible on the day of the absence.

It is the student’s responsibility to check with me concerning the work/notes missed. The daily warm-ups and schedule of activities is always in the binder on top of the turn in drawers. Copies of all assignments are in the grey file cabinet in Ms. Crews’ room. When possible assignments and notes will be posted online.

TESTS AND QUIZZES CANNOT BE MADE-UP IF YOU HAVE AN UNEXCUSED ABSENCE!!

★ Late Work

In this class it will be very important that you turn your work in a timely manner. Homework helps you prepare for tests! But sometimes things happen -

All work is due by Friday. Anything turned in after friday will be considered late and a 5 point penalty will be deducted from the assignment for each week late. I will never give you a zero - minimum point value is 5. Remember to communicate your needs with me, I may extend deadlines for students that take responsibility for their learning. NO LATE WORK WILL BE ACCEPTED AFTER A FINAL DEADLINE HAS PASSED - NO EXCUSES!!!!

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★ Cheating/Plagiarism

Don't Do It! Please do your own work. Copying someone else's work will result in zero points. This includes copying someone's homework or lab assignments!! There is a difference between working together and cheating!

★ Food/Drink

**DRINKS MUST BE IN COVERED CONTAINER- NO SPILLS!!!**

**Only healthy “snacks” allowed - no lunches!!!**

Gum is okay unless I start to see it on/under my desks.....

★ Cell phones/Electronic Devices

During “Tech Off” times - it is expected that all electronic devices are put away - this includes removing headphones. **If you are having a family issue and need to take a call or text - tell Mrs. Crews at the start of the class.**

Consequences for improper electronic device are as follows:

First Offense:

The first time you are caught using any of these devices in my class, I will confiscate the item until the end of the period.

Next Offense(s):

Anytime after the first offense you are caught using any of these devices, I will confiscate your item until the end of the day, and a possible meeting with the administrative team could occur.

During “Tech On” Times you will be allowed to use your electronic devices in the appropriate school manner - must still follow classroom expectations!

★ Classroom Materials

Please Treat my classroom with respect. Disrespect to my classroom and my materials will have consequences. This includes writing on my desks!! If you write on my desks you will be responsible for cleaning my classroom or serving lunch detention

Please ask before you pick up something - especially specimens!!
★ Bathroom Policy

YOU MUST LET ME KNOW BEFORE YOU LEAVE THE ROOM. You get a maximum of one bathroom break every period. But if I start noticing a pattern where you are gone everyday for an extended period of time, it may cost you participation points. I know the difference between “I have to go to the bathroom” and just being bored or wanting to chat with friends in the hall. Remember that class doesn’t stop for you, so try to time your bathroom breaks appropriately - for example during work time and not during notes. Walk quickly back to class to minimize class time lost!!!!

★ Labs

Labs are a big part of the science classroom. In order to keep labs safe and fun for everyone, it is CRUCIAL that all directions are followed exactly as how they are written on the lab procedures.

Each lab will have a unique set of procedures for performing the lab and also clean up, so it is important to listen during teacher explanations of directions.

If you ever have a question about a lab procedure, ASK! Failure to follow directions precisely or unsafe or inappropriate behavior will result in a zero on the lab activity. The next time this occurs lab privileges will be suspended and an alternate written assignment will be assigned.

Be careful! Use care and caution when handling lab materials!

Please have your family look over this syllabus, fill out the information, and return the next page to me with their signature, as well as your signature to show that you understand course policies and expectations. Please feel free to contact me with any questions! Thanks! I look forward to a great trimester in Biology!
Dear Families,

Please read through the Course Syllabus. It is our goal here at Churchill High School to give students and their parents/guardians easy access to valuable information.

In order to keep you informed about class work, please feel free to check out my web-site (via the CHS Web-site - look for “teacher websites” link). Sign up for text message alerts through Remind as explained above. You can also contact me to get the access code for edmodo.

For access to student grades please visit the Synergy Parent Portal - see front office for help!

If you have any questions or concerns over the course of the term feel free to e-mail me at any time. I check my e-mail frequently, it is the best way to contact me!!!

In the event that I need to contact you, please fill out the following information.

Erin Crews
crews_er@4j.lane.edu
(541)790-5178

__________________________
Student Name

__________________________
Student Signature

__________________________
Printed name of Parent or Guardian

__________________________
Signature of Parent or Guardian

Preferred method of communication (check one):

____ Phone

____ Email

Best time to call: ______ Email Address: _________________________________

Phone #: _________________________________

Comments (including any custody information which might help me better communicate with you and understand the needs of your child) Use the back of paper if needed:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________