GENETICS BIOL 305
Spring 2021

INSTRUCTOR: Agnes Ayme-Southgate
e-mail: southgatea@cofc.edu
Virtual office hours: on zoom by appointment

LECTURE: Tuesday and Thursday, 10:50-12:05, ONLINE SYNCHRONOUS
ONLINE SYNCHRONOUS means that the meetings will be done through Zoom at the indicated times for the lecture. The zoom link provided below is valid for the entire semester

https://cofc.zoom.us/j/95504956600
Meeting ID: 955 0495 6600

This same link can also be used if we schedule a virtual office visit for questions

COURSE DESCRIPTION:
The basics of the science of heredity. The course encompasses Mendelian genetics, the molecular basis of inheritance, changes in chromosome number and structure, gene mapping, mutations and population genetics. Population and quantitative genetic approaches are applied to clarify the understanding of evolution

LEARNING OUTCOMES:
- Understand the interpretation of genetic information (genotype) into a phenotype
- Acquire mastery of the genetics concepts governing the transfer and changes of genetic information.
- Become familiar with genetics databases and analysis tools.
- Develop critical and analytical skills through problem solving.

TEXT BOOK
No textbook required. Materials available on OAKS

EXPECTATIONS
Topics will follow the content Modules as posted on OAKS.
A file with class schedule and module assignments is posted individually on OAKS.
You are expected to come prepared to class by reading the materials in the corresponding module BEFORE class time.
I will follow a partial reverse teaching method, i.e. I will not teach all the material. We will use about half of each class time for activities and problem solving.

**TESTING**

1. Quizzes **through OAKS**  30%
   I drop the lowest grade. Dates for quizzes are posted in a separate document.

2. TESTS: **through OAKS**  40%
   There will be 2 tests during the semester. Make up for missed tests will only be given with an extremely valid excuse. Dates are posted on the accompanying schedule. **The tests will be given during regular class time.**

3. Class participation (questions and exercises during class time)  5%

4. Final exam (test 3):  25%
   At official registrar-assigned time: **Thursday April 29th, 8-10am On OAKS**

**SCALE:**

92 and above A
90-91.9: A-
87-89.9: B+
83-86.9: B
80-82.9: B-
77-79.9: C+
74-76.9: C
70-73.9: C-
67-69.9: D+
64-66.9: D
60-63.9: D-
Below 60: F
## IMPORTANT DATES

### Jan-21

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tr>
<td>Monday, January 11</td>
<td>Spring full semester and Express I classes begin.</td>
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<tr>
<td>Monday, January 18</td>
<td>Martin Luther King, Jr. Holiday, observed. No classes. College closed.</td>
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<tr>
<td>Tuesday, January 19</td>
<td>Last day of Drop/Add for full semester classes. Last day for students to submit a request to Audit or apply for a Pass/Not Pass grade option full semester classes.</td>
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### Feb-21

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<th>Date</th>
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<tr>
<td>Saturday, February 13 and Sunday, February 14</td>
<td>Storm Days Makeup (on campus instruction for PE Activity Courses, labs, studio, performance courses only; virtual instruction on these days for all other courses). (SD*)</td>
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<tr>
<td>Thursday, February 18</td>
<td>TEST 1 10:50 am - 12:05 pm</td>
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### Mar-21

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<th>Date</th>
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<tr>
<td>Tuesday, March 2</td>
<td>Review and Study Day. No classes.</td>
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<tr>
<td>Thursday, March 4</td>
<td>Review and Study Day. No classes.</td>
</tr>
<tr>
<td>Monday, March 8</td>
<td>Full semester Mid Term grades due by noon EST.</td>
</tr>
<tr>
<td>Monday, March 22</td>
<td>Last day for students to withdraw with a grade of &quot;W&quot;</td>
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### Apr-21

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<tr>
<td>Thursday, April 8</td>
<td>TEST 2 10:50 am - 12:05 pm</td>
</tr>
<tr>
<td>Wednesday, April 21</td>
<td>Last day of full semester classes. Only classes that normally meet on Thursday should meet on this date. #</td>
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<tr>
<td>Thursday, April 22</td>
<td>Reading Day</td>
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<tr>
<td>Thursday, April 29</td>
<td>FINAL (TEST 3) 8-10 am</td>
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<tr>
<td>Friday, April 30</td>
<td>Last day of full semester and Express II final exams.</td>
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<td>Spring 2021 Full semester and Express II Course-Instructor Evaluations close.</td>
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### May-21

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<tr>
<td>Monday, May 3</td>
<td>Full semester and Express II final grades due by 5 p.m. EST.</td>
</tr>
<tr>
<td>Tuesday, May 4</td>
<td>Final grades for full semester and Express II classes available to students on MyCharleston after noon.</td>
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RESOURCES FOR SUCCESS

It is essential that you stay on top of the course assignments. I will post due dates and reminders, but it is on you to make sure that you don't get behind. The material is quite difficult and will take a lot of effort on your part to master. You should plan to dedicate 1-2 hours/day every day (including weekends).

OAKS

OAKS, including Gradebook, will be used for this course throughout the semester to provide the syllabus, class materials, announcements, and grades for each assignment, which will be regularly posted. It is your responsibility to check OAKS for updates each day.

Contact your instructor

If you do not understand a concept, experiment or how to solve a problem, do not give up. The material builds on itself, i.e. if you do not understand something at the beginning, it will haunt you for the rest of the course. The best approach is to reach to your instructor immediately by email (southgatea@cofc.edu). I check my email regularly including on weekend and you can expect a response within 2-3 hours to set up a virtual office visit.

COURSE POLICIES

Electronic devices: All students must have access to a computer equipped with a web camera, microphone, and Internet access. Resources are available to provide students with these essential tools. All software needed for the class activities are either available online or downloadable free of charge.

Attendance and absence

There will be activities during class time that will facilitate your learning and for which you will receive class participation points. As the lecture will be recorded and the videos links made available, you can also watch the class recording later; however, you will forfeit your class participation points for that day. Should you become ill and unable to participate, I will trust you to tell me directly and that the explanation you give me for the absence is honest and truthful. In the eventuality that your absence is prolonged, I will work with you to provide alternative learning and assessments.

Recording of Classes (via ZOOM)

Class sessions will be recorded via both voice and video recording. By attending and remaining in this class, the student consents to being recorded. Recorded class sessions are for instructional use only and may not be shared with anyone who is not enrolled in the class.


"Lying, cheating, attempted cheating, and plagiarism are violations of our Honor Code that, when suspected, are investigated. Each incident will be examined to determine the degree of deception involved.

Incidents where the instructor determines the student’s actions are related more to misunderstanding and confusion will be handled by the instructor. The instructor designs an intervention or assigns a grade reduction to help prevent the student from repeating the error. The response is recorded on a form and signed both by the instructor and the student. It is forwarded to the Office of the Dean of Students and placed in the student’s file.
Cases of suspected academic dishonesty will be reported directly by the instructor and/or others having knowledge of the incident to the Dean of Students. A student found responsible by the Honor Board for academic dishonesty will receive a XXF in the course, indicating failure of the course due to academic dishonesty. This status indicator will appear on the student’s transcript for two years after which the student may petition for the XX to be expunged. The F is permanent.

Students can find the complete Honor Code and all related processes in the Student Handbook at: http://studentaffairs.cofc.edu/honor-system/studenthandbook/index.php.

Disability/Access Statements:
Any student eligible for and needing accommodations because of a disability is requested to speak with the professor during the first two weeks of class or as soon as the student has been approved for services so that reasonable accommodations can be arranged.

Center for Student Learning:
The Center for Student Learning’s (CSL) academic support services provide assistance in study strategies, speaking & writing skills, and course content. Services include tutoring, Supplemental Instruction, study skills appointments, and workshops. Students of all abilities have become more successful using these programs throughout their academic career and the services are available to you at no additional cost. For more information regarding these services please visit the CSL website at http://csl.cofc.edu or call (843) 953-5635.

Inclusion:
The College of Charleston offers many resources for LGBTQ+ students, faculty and staff along with their allies.
- Preferred Name and Pronoun Information
- On Campus Gender Inclusive facilities
- Campus Resources
- College of Charleston Reporting Portals
- National Resources for Faculty & Staff
- GSEC Reports
- Documenting LGBTQ Life in the Lowcountry (CofC Addlestone Library Special Collections Project)
- College of Charleston Quality Enhancement Plan (QEP)
- Articles about CofC and LGBTQ+ Issues

Statement on “Religious Accommodation for Students”
The College of Charleston community is enriched by students of many faiths that have various religious observances, practices, and beliefs. We value student rights and freedoms, including the right of each student to adhere to individual systems of religion. The College prohibits discrimination against any student because of such student’s religious belief or any absence thereof.

The College acknowledges that religious practices differ from tradition to tradition and that the demands of religious observances in some traditions may cause conflicts with student schedules. In affirming this diversity, like many other colleges and universities, the College
supports the concept of “reasonable accommodation for religious observance” in regard to class attendance, and the scheduling of examinations and other academic work requirements, unless the accommodation would create an undue hardship on the College. Faculty are required, as part of their responsibility to students and the College, to ascribe to this policy and to ensure its fair and full implementation.

The accommodation request imposes responsibilities and obligations on both the individual requesting the accommodation and the College. Faculty members are expected to reasonably accommodate individual religious practices. Examples of reasonable accommodations for student absences might include: rescheduling of an exam or giving a make-up exam for the student in question; altering the time of a student’s presentation; allowing extra-credit assignments to substitute for missed class work or arranging for an increased flexibility in assignment dates. Regardless of any accommodation that may be granted, students are responsible for satisfying all academic objectives, requirements and prerequisites as defined by the instructor and by the College.

Mental & Physical Wellbeing:

At the college, we take every students’ mental and physical wellbeing seriously. If you find yourself experiencing physical illnesses, please reach out to student health services (843.953.5520). And if you find yourself experiencing any mental health challenges (for example, anxiety, depression, stressful life events, sleep deprivation, and/or loneliness/homesickness) please consider contacting either the Counseling Center (professional counselors at http://counseling.cofc.edu or 843.953.5640 3rd Robert Scott Small Building) or the Students 4 Support (certified volunteers through texting "4support" to 839863, visit http://counseling.cofc.edu/cct/index.php, or meet with them in person 3rd Floor Stern Center). These services are there for you to help you cope with difficulties you may be experiencing and to maintain optimal physical and mental health.

Food & Housing Resources:

Many CoF students report experiencing food and housing insecurity. If you are facing challenges in securing food (such as not being able to afford groceries or get sufficient food to eat every day) and housing (such as lacking a safe and stable place to live), please contact the Dean of Students for support (http://studentaffairs.cofc.edu/about/salt.php). Also, you can go to http://studentaffairs.cofc.edu/student-food-housing-insecurity/index.php to learn about food and housing assistance that is available to you. In addition, there are several resources on and off campus to help. You can visit the Cougar Pantry in the Stern Center (2nd floor), a student-run food pantry that provides dry-goods and hygiene products at no charge to any student in need. Please also consider reaching out to Professor ABC if you are comfortable in doing so.