Class meeting times
Lecture: Wednesday 10:10 am - 12:00 pm, Long Hall 222
[this course is also taught face-to-face to Clemson students and online (via Zoom) only to IVE (international virtual exchange) students]

Instructor Information
Instructor: Dr. J. Antonio Baeza
Office: 226 Long Hall
Laboratory: 101 Jordan Hall
Phone: 656-1488
E-mail: jbaezam@clemson.edu
Web page: http://www.clemson.edu/cafls/departments/biosci/faculty_staff/baeza_a.html
Office hours: TH 9:30 - 10:30 AM, 226 Long Hall (only with previous appointment)

Planned modality of the course: Traditional (for Clemson students) + Blended/Hybrid (for IVE students)
This course will be traditional (for Clemson students) + blended/hybrid (for IVE students). We will meet face-to-face and via Zoom (with IVE and VE students) on the day/time designated for the class meeting. Using a variety of multimedia elements, I have designed an engaging and high-quality environment. This course contain a blend of synchronous online and face-to-face instruction. Hybrid courses use a variety of multimedia elements, as well as live, face-to-face opportunities. Blending these offerings will provide an engaging and supportive environment for you to learn the material. Be assured that no matter what medium is used, I have taken a deliberate approach to ensure you a high-quality experience.

Mask/Face Covering Policy
Science supports that the wearing of masks reduces SARS-COVID-2 transmission- out of respect for your classmates and the instructor/guests and their families- I would appreciate everyone wearing a face covering while in class. Note that Mask’s or face coverings are not required.

Course description in Short: in this course, we will learn about mitochondrial genomes. Mitochondria are organelles of utmost importance in 99.999% of uni-cellular and multi-cellular organisms. Perhaps more importantly, I will expose you to the scientific method and you will learn to think critically. We will be using various mitochondrial genomes as examples to improve your critical thinking skills. You will also improve your information literacy skills.


MITOCHONDRIA CONTAIN THEIR OWN GENOME, THE MITOCHONDRIAL DNA (mT DNA), WHICH IS LOCATED IN THE MITOCHONDRIAL MATRIX. 'MITOCHONDRIAL GENOMICS' IS AN INTRODUCTORY COURSE TO THE STRUCTURE, FUNCTION, AND EVOLUTION OF ANIMAL MITOCHONDRIAL GENOMES.

THIS COURSE HAS THREE GENERAL TOPICS: (1) STRUCTURE. WHAT IS THE LENGTH AND MAIN STRUCTURAL CHARACTERISTICS OF ANIMAL MITOCHONDRIA?, HOW MANY GENES AND OTHER ELEMENTS THE MITOCHONDRION GENOMES CODE FOR? WHAT GENES ARE THERE? (2) FUNCTION. WHAT IS THE IDENTITY AND FUNCTION OF ALL GENES ENCODED BY THE MITOGENOME? (3) EVOLUTION, INCLUDING THE EXPLORATION OF SELECTIVE PRESSURES IN PROTEIN CODING GENES PRESENT IN ANIMAL MITOCHONDRIAL GENOMES. IN THIS COURSE, WE WILL EXPLORE THE STRUCTURE, FUNCTION, AND EVOLUTION OF THE MITOCHONDRIAL GENOME USING A SET OF 'FRIENDLY' BIOINFORMATICS TOOLS.
This course will also provide opportunities to participants to improve their critical thinking abilities and information (including digital) literacy.

Important:
All students will be completing the GenBio-MAPS (General Biology–Measuring Achievement and Progression in Science) assessment test late during the semester and an Exit Interview Survey. During Aug 31 (Wed), you will be asked to take an assessment. This assessment is part of normal course requirements and will provide feedback on how well you understand fundamental biology concepts. The survey will contain 15 questions, and the answers will not be graded, but you will receive bonus points (20 points) for completing the assessment. This assessment will take roughly 20-40 minutes to complete.

Clemson Thinks²
This course is part of the Clemson Thinks² (CT²) critical thinking experiment, a program aimed at improving student critical thinking skills. Simple memorization of facts and repetition of definitions is not a sufficient skill set to address the complex problems our world faces today! As a Clemson undergraduate, we expect you to develop the ability to think critically and to evaluate how knowledge is constructed and the assumptions underlying such knowledge.

Critical thinking is reasoned and reflective judgment applied to solving problems or making decisions about what to believe or what to do. Critical thinking gives reasoned consideration to defining and analyzing problems, identifying and evaluating options, inferring likely outcomes and probable consequences, and explaining the reasons, evidence, methods and standards used in making those analyses, inferences and evaluations. Critical thinking is "skeptical without being cynical, evaluative without being judgmental, and purposefully focused on following reasons and evidence wherever they may lead". Please, visit https://www.insightassessment.com/FAQ/FAQs-General-Critical-Thinking/What-is-Critical-Thinking for additional information. Also, you can find more information on the CT² program at http://www.clemson.edu/assessment/thinks2/.

Student Learning Outcomes
• Understand and analyze the structure of animal mitochondrial genomes
• Understand structural and functional annotation of mitochondrial features
• Visualization of protein coding genes, tRNAs, and rDNA.
• Explore and learn online genomic tools
• Understand and estimate selective pressures in protein coding genes
• Infer systematic relationships using protein coding genes present in mt genomes.
• Interpret quantitative relationships in manuscript graphs and tables.
• Explain the limitations of correlational data published in scientific papers.
• Analyze data to identify and summarize problems as part of the scientific method.
• Integrate information/data to solve a problem as part of the scientific method.
• Develop and justify one or more than one hypotheses.
• Identify the limitations of one or more than one hypotheses.
• Identify alternative interpretations of the data or observations.
• Evaluate competing interpretations, explanations, evidence, and conclusions.
• Effectively communicate complex ideas.

**Critical Thinking Assessment and In-Class Activities**

First, you might be assessed by the CT² program through the application of a ‘pre-course’ test (California Critical Thinking Test) which will assess your initial critical thinking status and a second ‘post-course’ follow-up test to measure the difference. Dates for taking the pre- or post-course tests will be announced by the instructor during the semester.

Then, throughout the semester, there will be announced home-work as well as in-class activities, artifacts, and reports (see below) during the lecture period worth 1000 points towards your final grade (see below). At least one of these in-class activities include the discussion of a scientific paper. The different activities will be focusing on specific attributes of mitochondrial genomes. **During the activities, you will be exposed to the scientific method and critical thinking.** I will lead the discussion so that you can: i. identify, develop, and/or justify one or more than one hypothesis covered in the activities, ii. identify the limitations of one or more than one hypothesis proposed in the activities, iii. understand experimental design and its different components to test one or more than one hypothesis, iv. evaluate competing interpretations, explanations, evidence, and conclusions related to the in-silico experiment described in the different activities, and v. identify alternative interpretations of the data or experimental observations. The activity will also allow you to vi. integrate information/data to understand and solve a problem, and vi. effectively communicate complex ideas. Those students absent for the ICPA will receive zero points. **You need to participate and respect deadlines to perform well in the course.**

**Course prerequisites:** At minimum, students are expected to have a basic knowledge of how to use a computer, web browser, and a word processing program to be successful in this online class. Students must be comfortable with their computer system and willing to deal with any problems that may arise. Lack of technical knowledge can greatly interfere with your learning. If you do not have these skills, consider taking a short computer course prior to enrolling in any online course.

**Skills you are expected to know:**
• Get your password and login into the class Canvas site
• Attach files to email messages or upload them to Canvas
• Compose written documents in a word processor such as Microsoft Word or Pages
• Word processing tasks (type, cut, paste, copy, name, save, rename, etc.)
• Use a web browser
• Download information from the Internet
• Respond to online discussion forms
• Backup your files
• Use a webcam and/or cell phone to take videos and pictures
Participants are expected to be comfortable logging into the online course site and accessing/downloading files such as Microsoft Office documents, YouTube videos, and PDFs. In addition, participants should be able to use Microsoft Office (or an equivalent program suite) to compose written documents, spreadsheets, and PowerPoint presentations. For technical assistance with the online course site, participants should contact CCIT’s email (ithelp@clemson.edu) or visit CCIT’s website: (http://www.clemson.edu/ccit/help_support/).

**Required Knowledge:** be a Biology Major. Students are expected to have access to a computer with an internet connection and have some means by which they can stream and record themselves (video and audio). If your laptop or cellphone lacks these capabilities, make sure you purchase an appropriate device. Course material will be posted directly to our Canvas page unless otherwise communicated by the instructor.

*If the instructor is more than 15 minutes late for lecture without notice, students may leave without penalty.*

*Should I need to miss class due to illness or travel there will either be a substitute or an e-Learning activity. This would be communicated to you via Canvas.*

**Lecture Text:** NON Required

**Lecture Grading**

**Final Lecture Grade:** total nº of points earned out of a maximum of 1000 points.  
Scale: 900-1000 = A, 800-899.9 = B, 700-799.9 = C, 600-699.9 = D, <600 = Failed

**Important Note:** Grades will not be rounded up. Thus, the above are hard cutoffs.

Important Note: You need to bring a white paper to every lecture or be ready to submit a short report online at any point in time during the semester (word file)

**Lecture grades will be based on a total of 13 home-works, reports, and artifacts + class participation activities.**

The breakdown of points is described below. You will be expected to understand all material presented in lecture, recommended manuscripts, bioinformatics tools, assigned outside readings, and develop artifacts.

**Important:** It is mandatory that complete all reports, activities and artifacts if you want to pass the course.
**Grading specifics:**

[please, check deadlines below]

R: Literature Review Preliminary: 25  
R: Literature Review Final: 50  
R: Preliminary Annotation I: 50  
R: Preliminary Annotation II: 50  
R: Final Annotation: 100  
A: Circular Depiction: 75  
R: Codon & Nucleotide Usage: 25  
A: tRNA exploration & depiction: 100  
R: D-loop/CR exploration: 25  
R: PCG selection analysis I: 100  
A: Video I: 100  
R & A: PCG selective pressure analysis II: 100  
A: Video 2: 200

[Class participation: 50 pts]
[Evaluation: 50 extra points]
Total points for lecture **1000 pts** 

R = report, A = artifact (figures or videos)

**Activities: Lecture Reports + Artifacts (including videos)**

Throughout the semester, there will be in-class activities worth 1000 points towards your final grade. These activities may include discussing a paper, providing a written report about a specific analysis, designing a figure focusing on a specific mitochondrial feature, and developing videos explaining your results. Those students failing to provide reports or artifacts during the deadline date will receive zero points.

There will be no opportunity to make up missed reports or artifacts. In the case that a student misses a deadline and has a University- and instructor- approved excuse in advance, the student will be excused from that specific activity and scores will be prorated.

**Important:** Honor students will develop extra activities during the semester. These activities will be discussed with the instructor at the beginning of the semester. Activities include the production of two artifacts: one video and one poster.
## LECTURE SCHEDULE

**IMPORTANT NOTICE**: *topics and order are subject to minor / moderate change*

<table>
<thead>
<tr>
<th>Date</th>
<th>Topics</th>
<th>REPORT / ARTIFACT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 24 (Wed)</td>
<td>Introduction</td>
<td></td>
</tr>
<tr>
<td>Aug 31 (Wed)</td>
<td>Literature Review &amp; Genome Annotation</td>
<td>GenBio-MAPS</td>
</tr>
<tr>
<td>Sep 07 (Wed)</td>
<td>Literature Review &amp; Genome Annotation</td>
<td>R: Literature Review Preliminary</td>
</tr>
<tr>
<td>Sep 14 (Wed)</td>
<td>Mitogenome Annotation &amp; Curation</td>
<td>R: Literature Review Final</td>
</tr>
<tr>
<td>Sep 21 (Wed)</td>
<td>Mitogenome Annotation &amp; Curation</td>
<td>R: Preliminary Annotation I</td>
</tr>
<tr>
<td>Sep 28 (Wed)</td>
<td>Mitogenome Annotation &amp; Curation</td>
<td>R: Preliminary Annotation II</td>
</tr>
<tr>
<td>Oct 05 (Wed)</td>
<td>Mitogenome Circular Depiction</td>
<td>R: Final Annotation</td>
</tr>
<tr>
<td>Oct 12 (Wed)</td>
<td>Mitogenome Circular Depiction</td>
<td></td>
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<tr>
<td>Oct 19 (Wed)</td>
<td>Codon &amp; Nucleotide Usage</td>
<td>A: Circular Depiction</td>
</tr>
<tr>
<td>Oct 26 (Wed)</td>
<td>tRNA exploration &amp; depiction</td>
<td>R: Codon &amp; Nucleotide Usage</td>
</tr>
<tr>
<td>Nov 02 (Wed)</td>
<td>D-loop/CR exploration &amp; depiction</td>
<td>A: tRNA exploration &amp; depiction</td>
</tr>
<tr>
<td>Nov 09 (Wed)</td>
<td>Instructions: Video in Express or Rush</td>
<td>R: D-loop/CR exploration</td>
</tr>
<tr>
<td>Nov 16 (Wed)</td>
<td>PCG selective pressure analysis</td>
<td>Exit Interview Survey</td>
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<tr>
<td>Nov 23 (Wed)</td>
<td>Thanksgiving holidays</td>
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<tr>
<td>Nov 30 (Wed)</td>
<td>PCG selective pressure analysis + VIDEO</td>
<td>R: PCG selection analysis I</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A: Video I</td>
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<tr>
<td>Dec 07 (Wed)</td>
<td>Video script &amp; tools</td>
<td>R &amp; A: PCG selective pressure</td>
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<tr>
<td></td>
<td></td>
<td>analysis II</td>
</tr>
<tr>
<td>Dec 14 (Wed)</td>
<td>Dec 14, 7-9:30 PM Examinations</td>
<td>A: Video 2</td>
</tr>
</tbody>
</table>

**Instructor Statement on Attendance Policy**

Attendance: You must participate during the first week of class. If you have not participated by AUGUST 24 (last day to add a class) or you accumulate excessive absences (more than one absence constitutes excessive absences), you may be dropped from the course.

You should speak with me as soon as possible regarding any absence and develop a plan for any make-up work. It is your responsibility to let me know if you need to make any changes due to the pandemic. In the event of an emergency, you should make direct contact with me, preferably before a class or an exam takes place. You may find it helpful to use the Notification of Absence module in Canvas. If you have difficulty or are unable to electronically report the absence, you may call the Office of Advocacy and Success at 864-656-0935 for assistance and guidance.
Clemson University undergraduate student attendance policies are available in the undergraduate catalog. This includes sections on attendance policy, enrollment, anticipated absences, unanticipated absences, excused absences, appeals, and auditing. Some of the most pertinent information is copied below.

**Important:** Any exam that was scheduled at the time of a class cancellation due to inclement weather, University power outage, etc., will be given at the next class meeting unless contacted by the instructor. Any assignments due at the time of a class cancellation due to inclement weather will be due at the next class meeting unless the instructor contacts students. Any extension or postponement of assignments or exams must be granted by the instructor via email or Canvas within 24 hours of the weather-related cancellation.

You must participate during the first week of class. If you have not participated by AUGUST 24 (last day to add a class) or you accumulate excessive absences (1 or more classes), you may be dropped from the course.

You should speak with me as soon as possible regarding any absence and develop a plan for any make-up work. It is your responsibility to let me know if you need to make any changes due to the pandemic. In the event of an emergency, you should make direct contact with me, preferably before a class or an exam takes place. You may find it helpful to use the Notification of Absence module in Canvas. If you have difficulty or are unable to electronically report the absence, you may call the Office of Advocacy and Success at 864-656-0935 for assistance and guidance.

**UPDATED: 08 15 2022**

*If the instructor is more than 15 minutes late for lecture without notice, students may leave without penalty.*

*Should I need to miss class due to illness or travel there will either be a substitute or an e-Learning activity. This would be communicated to you via Canvas.*

**Inclement Weather**

Any exam that was scheduled at the time of a class cancellation due to inclement weather, University power outage, etc. will be given at the next class meeting unless contacted by the instructor. Any assignments due at the time of a class cancellation due to inclement weather will be due at the next class meeting unless the instructor contacts students. Any extension or postponement of assignments or exams must be granted by the instructor via email or Canvas within 24 hours of the weather-related cancellation.

**Academic Continuity**

Clemson has developed an Academic Continuity Plan for academic operations. Should university administration officially determine that the physical classroom facility is not available to conduct classes, class will be conducted in a virtual (online) form. The university issues official disruption notifications through email, website, text notification and Social Media. When notified, use one of the following links to navigate to Clemson Canvas where you will find important information about how we will conduct class:

- Primary access link: http://www.clemson.edu/canvas
- Secondary access link, if needed: https://clemson.instructure.com/
- You can also use the Canvas Student App. Visit the downloads page for this app.

Course activities will occur through the Canvas course and GoogleDrive.

**Expectations**

Expectations (in terms of your performance) are high for this course!!!
UNIVERSITY POLICIES

Accessibility Services:
Clemson University values the diversity of our student body as a strength and a critical component of our dynamic community. Students with disabilities or temporary injuries/conditions may require accommodations due to barriers in the structure of facilities, course design, technology used for curricular purposes, or other campus resources. Students who experience a barrier to full access to this class should let the instructor know and make an appointment to meet with a staff member in Student Accessibility Services as soon as possible. You can make an appointment by calling 864-656-6848, by emailing studentaccess@lists.clemson.edu, or by visiting Suite 239 in the Academic Success Center building. Appointments are strongly encouraged – drop-ins will be seen if at all possible, but there could be a significant wait due to scheduled appointments. Students who have accommodations are strongly encouraged to request, obtain and send these to their instructors through their AIM portal as early in the semester as possible so that accommodations can be made in a timely manner. It is the student’s responsibility to follow this process each semester.

You can access further information at the Student Accessibility website. Other information is at the university’s Accessibility Portal.

Non-Discrimination:
The Clemson University Title IX statement: Clemson University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, pregnancy, national origin, age, disability, veteran’s status, genetic information or protected activity in employment, educational programs and activities, admissions and financial aid. This includes a prohibition against sexual harassment and sexual violence as mandated by Title IX of the Education Amendments of 1972. This Title IX policy is located on the Campus Life website. Ms. Alesia Smith is the Clemson University Title IX Coordinator, and the Executive Director of Equity Compliance. Her office is located at 223 Brackett Hall, 864.656.0620. Remember, email is not a fully secured method of communication and should not be used to discuss Title IX issues.

Clemson University aspires to create a diverse community that welcomes people of different races, cultures, ages, genders, sexual orientation, religions, socioeconomic levels, political perspectives, abilities, opinions, values and experiences.

Academic Integrity:
As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a "high seminary of learning." Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic
dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form.

All infractions of academic dishonesty by undergraduates must be reported to Undergraduate Studies for resolution through that office. In cases of plagiarism instructors may use the Plagiarism Resolution Form.

See the Undergraduate Academic Integrity Policy website for additional information and the current catalogue for the policy.

For graduate students, see the current graduate student handbook for all policies.

Copyright Statement:
Materials in some of the courses are copyrighted. They are intended for use only by students registered and enrolled in a particular course and only for instructional activities associated with and for the duration of the course.

Emergency Preparedness:
Clemson University is committed to providing a safe campus environment for students, faculty, staff, and visitors. As members of the community, we encourage you to take the following actions to be better prepared in case of an emergency:

a. Ensure you are signed up for emergency alerts (https://www.getrave.com/login/clemson),
b. Download the Rave Guardian app to your phone (https://www.clemson.edu/cusafety/cupd/rave-guardian/)
c. Learn what you can do to prepare yourself in the event of an active threat(http://www.clemson.edu/cusafety/EmergencyManagement/)

Helpful Resources:
The Department of Biological Sciences is committed to providing a supportive learning environment for all students. If you are facing tough times, please utilize these resources. You may also reach out to me directly.

b. Food Insecurity: Clemson Paw Pantry (http://facebook.com/CUpawpantry)
e. Multicultural Resources and Support: Gantt Multicultural Center  
(https://www.clemson.edu/centers-institutes/gantt/multicultural-programs)

f. LGBTQ Support: Gantt Multicultural Center – LGBTQ Programs  
(https://www.clemson.edu/centers-institutes/gantt/lgbtq-programs/resources.html)

g. Adjustment and Transition: Counseling and Psychological Services  
(https://www.clemson.edu/campus-life/student-health/caps) and Student Transitions and Family Programs  
(http://www.clemson.edu/studentaffairs/stfp/index.html)

h. Interpersonal Violence: Healthy Campus  
(https://www.clemson.edu/campus-life/healthy-campus/interpersonal-violence/index.html)

i. Addiction and Recovery: SC:  
(https://www.daodas.sc.gov/), Web:  
(https://addictionresource.com/) and Vaping  
(https://vapingdaily.com/health/).

Student Safety
Clemson University is committed to providing a safe campus environment for students, faculty, staff, and visitors. As members of the community, we encourage you to take the following actions to be better prepared in case of an emergency:

a. Ensure you are signed up for emergency alerts (https://www.getrave.com/login/clemson),

b. Download the Rave Guardian app to your phone (https://www.clemson.edu/cusafety/cupd/rave-guardian/)

c. Learn what you can do to prepare yourself in the event of an active threat(http://www.clemson.edu/cusafety/EmergencyManagement/)

Animal Care and Use  
http://www.clemson.edu/research/compliance/iacuc

Human Subjects Policy  
http://www.clemson.edu/research/compliance/irb/

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f. LGBTQ Support: Gantt Multicultural Center – LGBTQ Programs (https://www.clemson.edu/centers-institutes/gantt/lgbtq-programs/resources.html)

g. Adjustment and Transition: Counseling and Psychological Services  
(https://www.clemson.edu/campus-life/student-health/caps) and Student Transitions and Family Programs  
(http://www.clemson.edu/studentaffairs/stfp/index.html)

h. Interpersonal Violence: Healthy Campus (https://www.clemson.edu/campus-life/healthy-campus/interpersonal-violence/index.html)

i. Addiction and Recovery: SC:  
(https://www.daodas.sc.gov/), Web:  
(https://addictionresource.com/) and Vaping  
(https://vapingdaily.com/health/).

Last Week of Classes
No examinations, other than laboratory examinations, are permitted on the last two class days.

ACCESSING ACADEMIC SUCCESS CENTER (ASC) SERVICES

- Students can access all summer 2020 ASC services, schedules, and learning resources at www.clemson.edu/asc.
- Students needing assistance from ASC staff can call 864-656-6452 or send a message to asc@clemson.edu.

DESCRIPTIONS OF ASC SERVICES

- ASC online services and resources include 1) course support services (Links to an external site.), 2) academic coaching (Links to an external site.), and 3) resources for learning and succeeding in online courses. (Links to an external site.)
  - Course support services (Peer-Assisted Learning (PAL) (Links to an external site.), Tutoring, (Links to an external site.) and LearningLab (Links to an external site.)) focus on creating a supportive learning environment and engaging students in activities designed to promote learning and mastery of course content. All PAL, tutoring and LearningLab sessions are facilitated by a trained peer leader on Zoom or Google Hangouts.
    - Students attending a PAL session can expect to work collaboratively with other students on structured learning activities and practice problems related to material currently being covered in the course. The PAL leader’s role is to facilitate the activities and ask open-ended questions that help students collaborate and work out problems or course concepts themselves.
    - Students attending a tutoring session can expect to work on learning activities or practice problems pertaining to the specific content questions the student(s) brought to the session. The tutor’s role is to ask open-ended questions or suggest approaches that help students think through and work out the problems or course concepts themselves.
    - Students attending a LearningLab session can expect to work on self-guided learning worksheets designed to help students reflect on, organize, and structure their study time. The peer learning consultant’s role is to provide students with recommendations on effective learning and study strategies.
  - Academic Coaching (Links to an external site.) focuses on developing positive and ongoing relationships with students and engaging students in the process of identifying their academic and personal success goals and sharing learning and success strategies students can implement to achieve their goals. All Academic Coaching sessions are facilitated by a full-time academic coach via Zoom or by phone.

Students participating in Academic Coaching can expect the academic coach to help them with identifying their goals and areas for growth, discuss
success strategies the student can adopt, and provide ongoing support as the student works towards achieving their goals.

- Resources for learning and succeeding in online courses focus on providing supplemental asynchronous content students can access 24/7. Resources include iLearn videos (Links to an external site.) and Resources and Apps for Success in Online Courses.

**Wellness Resources**

STUDENT HEALTH AND WELLNESS RESOURCES
Student Health Services (https://www.clemson.edu/campus-life/student-health/), locally known as “Redfern” Health, strengthens Clemson University by providing quality medical and mental health care and the health, safety and well-being of the campus community. Student Health Services strives to be an innovative health care system providing integrated quality services that are responsive to the needs of the University community.

Information on who to contact for help in a crisis situation, visit https://www.clemson.edu/campus-life/student-health/contact/index.html (Links to an external site.) and on the emergency/crisis page https://www.clemson.edu/campus-life/healthy-campus/suicideprevention/get-help.html (Links to an external site.) .

CAPS: COUNSELING AND PSYCHOLOGICAL SERVICES
At Counseling and Psychological Services (https://www.clemson.edu/campus-life/student-health/caps/services-and-programs/index.html), you are encouraged to be an active participant in your medical and mental health care. Which service is the right one for you hinges your individual need and CAPS will help you figure that out.

CAPS is committed to educating students, as well as offering “outreach services to faculty and staff members in order to improve the quality of their interactions with students and to promote a healthy work environment.”