

Email this form and attachments to miemming@fau.edu seven business days before the UUPC meeting.

New Minor Proposal

Forensic Investigation (to begin Fall 2025)

Contact

Sigal Rubin, School of Criminology and Criminal Justice (SCCJ) UG Coordinator (rubins@fau.edu)

Background

The SCCJ has offered electives entitled Introduction to Forensic Science (CJE_3674) and Advanced Forensics (CCJ_4247) for several years. Many of the enrolled students are Criminal Justice majors/minors but a trend has been seen with Biology, Biochemistry, Chemistry, and Psychology students enrolling in both classes with a strong desire to obtain employment in crime lab and criminal justice centers. Many of the students who speak with the SCCJ staff at Explore FAU, Choose FAU, and other recruitment events express interest in pursuing forensic investigations as part of their potential career paths. As such, the SCCJ is proposing a new Forensic Investigation minor for undergraduate students. The curriculum for the proposed Forensic Investigation minor can be found below on page 4 in the section titled “Proposed Catalog Language.”

Forensic Investigation as a Criminal Justice Discipline

Forensic investigation and forensic science are terms often used interchangeably. Forensic scientists are trained in chemistry, biology, and physics whose chief function is the analysis, identification, and potential individualization of evidence collected at crime scenes. **Forensic investigators, on the other hand, are the responders to crime scenes for the purpose of the documentation and preservation of potentially probative evidence which will then be analyzed by a forensic technician within a laboratory setting.**

The training and focus of the investigators are focused on observational skills, photography, documentation, interview techniques, and evidence collection techniques. **A strong science background is not needed for the investigator as it would be for a forensic scientist.** The campus facilities at FAU are ideal for the academic education as well as training of physical skills (photography, latent fingerprint collection, footwear impressions, etc.) of the students who would graduate with a higher degree of training and knowledge of these highly desirable techniques.

Forensic Programs at State University System (SUS) of Florida, Regional, and National Peer Institutions

The table below displays a course catalog search (“Forensic Major,” “Forensic Minor”) among institutions with a college, school, or department of criminal justice and/or criminology. As can be seen, Forensic Investigation was its own unique undergraduate class at two of the universities in the SUS. Most undergraduate Forensic-related courses are Forensic Science (n=6), with additional curriculum being offered as graduate level (n=3), or medical school courses (n=1).

Table 1. Comparison of Undergraduate Forensic Investigation Major/Minor Among SUS of Florida, Regional, & National Peer Institutions

	No Forensic Investigation	Forensic Investigation Major/Minor	Forensic Science Major/Minor
State University System of Florida			
Florida A&M University	X		
Florida Gulf Coast University	X		X
Florida International University	X		X
Florida State University		Major	
Florida Polytechnic University	X		
New College of Florida	X		
Keiser University		X	
University of Central Florida	X		X
University of Florida	X		GRAD
University of North Florida	X		GRAD
University of South Florida	X		
University of West Florida	X	Minor	
National & SACS Regional Peer Institutions			
University of Memphis	X		
University of North Texas	X		X
Northern Arizona University	X		X
Old Dominion University	X		
University of New Mexico	X		X
Georgia State University	X		
Texas State University			GRAD
University of North Carolina	X		Med School

Additional Resources Needed to Offer the Minor

Minimal additional resources will be required of the university to run this minor, and **no additional funds from outside the College will be needed for this program**. The SCCJ has healthy and robust enrollment numbers—which have continued to grow in recent years—and a pool of instructors and adjuncts who are already identified to teach within this minor. The SCCJ already offers Introduction to Forensic Science (CJE 3674) and Advanced Forensics (CJE 4247) courses every semester. Introduction to Forensics Investigations (CJE 3646), which will be a new elective (paperwork is being submitted alongside, but separately from this proposal), will be taught by an existing instructor. We will hire an adjunct to teach a section of CJE 3674. This, however, will replace a duplicate section of a different elective course (taught by an adjunct)—making it net neutral to offer.

Summary

1. The interest of students has been overwhelming as seen through existing class offerings as well as potential students at recruiting events.
2. Student enrollment within the existing forensic course offerings is at peak capacity each semester.
3. A forensic investigation minor is not offered at most Universities in the SUS of Florida and among Regional and National Peer Institutions.
4. Well trained Forensic Investigators have an expanding role in the criminal justice discipline to properly ensure evidence is not contaminated or destroyed prior to trial proceedings.

These facts collectively support the creation of a Forensic Investigation Minor to meet our students' needs and the growing needs of the criminal justice system. The SCCJ, therefore, seeks the Committee's approval for this new minor proposal.

Moving forward, the SCCJ would be greatly interested in exploring how we can work with interested Colleges to offer classes or perhaps create additional programs that would serve to develop the overall expertise of Florida Atlantic graduates.

Proposed Catalog Language for Forensic Investigation Minor

A minor in Forensic Investigation is open to all undergraduate students at FAU. The minor consists of 16 credits in courses that include criminal justice, biology, and anthropology. Of the 16 credits, at least 12 must be earned from FAU.

For the minor in Forensic Investigation, students must complete all the below listed courses. Each course must be completed with a minimum grade of "C." Courses within the minor have no specific required path with the exception of CJE 3674 being a prerequisite for CCJ 4247.

Course #	Course Title	Credits
BSC 1010/ BSC 2085	Biological Principles (or equiv.) OR Anatomy & Physiology I	3
BSC 1010L BSC 2085L	Biological Principles Lab (or equiv.) OR Anatomy & Physiology I Lab	1
CJE 3646	Introduction to Forensic Investigations	3
CJE 3674	Introduction to Forensic Science	3
ANT 4520	Forensic Anthropology	3
CJE 4247	Advanced Forensics	3
TOTAL		16



FLORIDA ATLANTIC UNIVERSITY

Dorothy F. Schmidt
College of Arts and Letters

Department of Anthropology

Boca Raton, FL 33431

Tel: 561.297.3230

www.fau.edu/anthro

February 3, 2025

Re: Letter of Support for the Forensic Investigations Minor

The Department of Anthropology fully supports the proposal for a minor in Forensic Investigations submitted by the School of Criminology and Criminal Justice. We have been in conversation concerning the development of a forensics program at FAU and, as a department, we are excited to make significant strides toward providing new opportunities to our students. Many of our anthropology students are interested in such a program.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael S. Harris".

Michael S. Harris, Ph.D.

Chair and Associate Professor in the Department of Anthropology

From: [Patrick McLaughlin](#)
To: [Cassandra Atkin-Plunk](#)
Subject: Fw: Forensic Investigations Minor
Date: Monday, February 24, 2025 12:43:46 PM

...

Patrick McLaughlin, M.S. Forensic Science
Instructor
FAU School of Criminology & Criminal Justice
Office SO-221
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[Invest In Our Mission](#)

From: Sarah Milton <smilton@fau.edu>
Sent: Thursday, February 13, 2025 1:38 PM
To: Patrick McLaughlin <pmclaughlin@fau.edu>; Olumide Adenmosun <oadenmos@fau.edu>
Subject: Re: Forensic Investigations Minor

Greetings - Biological Sciences has no objection. I think A&P is a better option for most students. Just as an FYI, we offer BSC 1010 in spring and summer semesters only (Most SUS offer it in the fall).

Regards,

Dr. Sarah L. Milton
Professor and Chair
Department of Biological Sciences
FAU

From: Patrick McLaughlin <pmclaughlin@fau.edu>
Sent: Thursday, February 13, 2025 1:19 PM
To: Olumide Adenmosun <oadenmos@fau.edu>
Cc: Sarah Milton <smilton@fau.edu>
Subject: Re: Forensic Investigations Minor

Good afternoon everyone,

I am following up to see if there were any specific questions you may have had for me. We are looking to move forward with our next steps and bring it before the University hierarchy and committees. If you are able to provide us with a letter of support, I would request it by the 21st of February. My window of opportunity is closing if we are to launch this for the Fall 2025 semester.

Thank you very much,

Pat

...

Patrick McLaughlin, M.S. Forensic Science
Instructor
FAU School of Criminology & Criminal Justice
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[Invest In Our Mission](#)

From: Patrick McLaughlin <pmclaughlin@fau.edu>
Sent: Saturday, January 25, 2025 11:41 AM
To: Olumide Adenmosun <oadenmos@fau.edu>
Cc: Sarah Milton <smilton@fau.edu>
Subject: Re: Forensic Investigations Minor

Good morning all!

I have attached the letter which will be used going forward into the approval process. I know that my Dean had a meeting with several other Deans and pitched this idea to them. I had intended on having them take Principles of Bio, but (I believe but am not certain of) your Dean made the recommendation to allow them to take A&P as an option. I was really thrilled with this idea but didn't think that the course sizes would allow for such! (My A&P section was capped at 24).

The MoBio course is one that I very strongly want them to take and encourage my students each semester to enroll in. My plan is to expand this program very quickly. I know that I will need to begin chatting with multiple department advisor staff to help keep everyone on track, but I think that it will be doable. The next level of this minor (as we draw closer to a major) will be to increase their involvement in sciences. If we intend on creating an accredited major (which I know is the goal of my Dean), FEPAC will require Bio, Chem, Physics, and multiple lab-based courses. I know that your DNA course would be acceptable under their guidelines.

I would be grateful to speak to anyone at the lab about making use of the pipettors. I'd like to start the data collection in mid-February. That date will be a variable based on IRB approval.

I wish you had not mentioned ABC. It brings back my guilt in not sitting for that test when I graduated.

Thank you both for your support with the minor and I'm very excited to have the ability to cooperate now and moving forward.

Be well,

Pat

...

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From: Olumide Adenmosun <oadenmos@fau.edu>
Sent: Tuesday, January 21, 2025 4:09 PM
To: Patrick McLaughlin <pmclaughlin@fau.edu>
Cc: Sarah Milton <smilton@fau.edu>
Subject: Re: Forensic Investigations Minor

Thanks for reaching out Patrick.

Glad to hear that you are making progress on the proposed program.

I have copied your request with our departmental chair - Dr. Milton. But kindly help clarify what you may need from us (for the letter):

1. Do you intend to have your students take some Biology courses from our department? If yes which courses are you considering in your curriculum for the minor?
2. Would you require that students for the minor also enrol for the DNA Forensics certificate course before the end of their program? It has been approved by ABC - American Board of Criminalistics.

Please let us know what your plans are and what your letter of support needs to contain?

Finally, I am teaching at the Davie campus this term, but yes, I can link you with one of the labs at Boca where you can get a micropipette to conduct your study. Do let me know when.

Thanks and hoping to hear from you soon.

Olumide O. Adenmosun, PhD, MBA, MS, GradCert. (Bioeng.)

Adjunct Faculty:

General Microbiology (MCB 3020)

Microbiology for Health Services (MCB 2004)

Lead Instructor and Program Manager:

DNA Forensics & Assisted Reproductive Technology (A.R.T.)

Department of Biological Sciences
Charles E. Schmidt College of Science
Florida Atlantic University

Boca Campus:

777 Glades Road
Boca Raton FL 33431

Davie Campus:

3200 College Avenue
Davie FL 33314

Room#: SC286 (Boca); DW337 (Davie)

Mobile: +1-954-864-0860 | **Email:** oadenmos@fau.edu; olucyno@gmail.com

CE Program Website: http://biology.fau.edu/academics/continuing_education.php

FAU Newsfeed: <http://www.fau.edu/newsdesk/articles/olumide-adenmosun.php>

FAU Broward Campuses News: <http://www.fau.edu/broward/news/biology-doctoral-candidate-interviewed-nigerian/index.php>

FAU Broward Campuses Alumni Spotlight: <https://www.fau.edu/broward/news-alumni-spotlight/adenmosun/>

ResearchGate: https://www.researchgate.net/profile/Olumide_Adenmosun

LinkedIn: <https://www.linkedin.com/in/olumide-adenmosun-b3449121/>

From: Patrick McLaughlin <pmclaughlin@fau.edu>

Sent: Monday, January 20, 2025 2:14 PM

To: Olumide Adenmosun <oadenmos@fau.edu>

Subject: Forensic Investigations Minor

Good afternoon Olumide,

I hope that you are (not checking emails on our day off) doing well for the start of the semester. I am happy to announce that we have secured the faculty vote from CJ to proceed to the next steps to having the minor adopted by the University. I am hoping that Biology can provide a letter of support for this endeavor. We will be supplying letters from Anthropology, Psychology, and Social Work. Having your school's support will be of great value!

On a second note, I am engaged with a research project. I am doing the project on blood spatter analysis and was wondering who, if anyone, you'd recommend that I approach to obtain a pipette for a few moments? I am trying to see if I can utilize it to dispense 0.05mL of the blood droplet and how that effects the resulting impact on my selected substrates. I will make efforts to obtain our own pipettors, but would like to observe their effectiveness before we spend the money on them.

Best,

Pat

OH! Are you on campus on Mondays this semester?

...

Patrick McLaughlin, M.S. Forensic Science
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Alan W. Kersten
Professor and Chair
Department of Psychology
777 Glades Road
Boca Raton, FL 33431
tel: 561.297.0619
akersten@fau.edu

MEMORANDUM

FROM: Alan Kersten, Chair, Department of Psychology

TO: Ryan Meldrum, Director, School of Criminology and Criminal Justice

DATE: 2/20/2025

RE: Forensic Investigations Minor

Dear Dr. Meldrum:

The Department of Psychology is happy to support your proposed development of a Forensic Investigations Minor program. As we have discussed, we believe that our existing course in Forensic Psychology (CLP 4390) could meaningfully contribute to this minor and we hope that you will consider adding it at least as an elective option in the future. The program as currently proposed represents a tremendous opportunity to our students, however, and thus we are happy to provide our support.

Sincerely,

A handwritten signature in blue ink, appearing to read "Alan Kersten", is positioned above the printed name.

Alan Kersten



**Phyllis and Harvey Sandler School of Social Work
College of Social Work and Criminal Justice**

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Boca Raton, FL 33431

tel: 561.297.4170

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www.fau.edu/sw-cj

January 21, 2025

Dr. Ryan Meldrum
Professor and Director
School of Criminology and
Criminal Justice
Florida Atlantic University

Dear Dr. Meldrum,

As Director of the Sandler School of Social Work, I strongly support the proposed minor in Forensic Investigation within the School of Criminology and Criminal Justice. This minor complements the electives taken by many social work students and aligns with their interests in pursuing careers as forensic social workers. We at the Sandler School of Social Work look forward to offering this class to our students as an optional elective.

Best Regards,

Dr. Michael A. Robinson
Professor and Director
Sandler School of Social Work
Florida Atlantic University
Office: 561-297-3245

Letter of Support for New Minor at FAU

I am writing this letter, representing the Science Learning Center (SLC), in support of the proposed Forensic Investigations minor at Florida Atlantic. The SLC is part of the Center for Learning and Student Success (CLASS) and holds all in-person science tutoring at FAU. In addition to tutoring, the SLC has many resources for student success, including microscopes and virtual reality. The SLC has been collaborating with Patrick McLaughlin in ensuring that students enrolled in Introduction to Forensic Science (CJE 3674) have access to SLC resources. This includes having a designated time for CJE 3674 students to use the microscopes in the SLC to study relevant slides provided by Patrick. Additionally, the SLC has invested in virtual reality programs that will be applicable to current and future forensic science students. The proposed minor will also require Biological Principles (BSC 1010) or Anatomy and Physiology 1 (BSC 2085) as part of the minor curriculum. The SLC offers tutoring and supplemental instruction for both courses and has an Anatomy Learning Lab. Forensic science students will have ample support at the SLC. The SLC itself supports this new minor program at FAU due to increased collaboration with the College of Social Work and Criminal Justice and resources detailed here dedicated to student academic success.

Example Syllabi for Courses in the Forensic Investigation Minor

The syllabi for each course can be found via the links below or in the following documents.

Course #	Course Title	Link to Syllabus
BSC 1010/	Biological Principles (or equiv.) OR	https://fau.simplesyllabus.com/api2/doc-pdf/06np8xwxh/Spring-2025-1-Full-Term-BSC-1010-002-.pdf?locale=en-US
BSC 2085	Anatomy & Physiology I	https://fau.simplesyllabus.com/api2/doc-pdf/8bdeqqmb1/Spring-2025-1-Full-Term-BSC-2085-001-.pdf?locale=en-US
BSC 1010L	Biological Principles Lab (or equiv.) OR	https://fau.simplesyllabus.com/api2/doc-pdf/dy1ekjgin/Spring-2025-1-Full-Term-BSC-1010L-002-.pdf?locale=en-US
BSC 2085L	Anatomy & Physiology I Lab	https://fau.simplesyllabus.com/api2/doc-pdf/3et1dxggt/Spring-2025-1-Full-Term-BSC-2085L-001-.pdf?locale=en-US
CJE 3646	Introduction to Forensic Investigations	This course is currently going through the university approval process. As such, it does not have a link to the example syllabus. It can be seen below.
CJE 3674	Introduction to Forensic Science	https://fau.simplesyllabus.com/api2/doc-pdf/ddqd7shdj/Spring-2025-1-Full-Term-CJE-3674-001-Intro-to-Forensic-Science.pdf?locale=en-US
ANT 4520	Forensic Anthropology	https://fau.simplesyllabus.com/api2/doc-pdf/tf0mjvs5x/Spring-2025-1-Full-Term-ANT-4520-001-Forensic-Anthropology.pdf?locale=en-US
CJE 4247	Advanced Forensics	https://fau.simplesyllabus.com/api2/doc-pdf/yhjr89cuw/Spring-2025-1-Full-Term-CJE-4247-001-Advanced-Forensic-Science.pdf?locale=en-US



SCHOOL OF CRIMINOLOGY & CRIMINAL JUSTICE

FLORIDA ATLANTIC UNIVERSITY

CJE 3646 Section XXX CRN XXX

Introduction to Forensic Investigations

Meeting Day(s)/Time: In Person

Credits: 03

Semester: Fall Year 2025

Prof. McLaughlin

Office: SO-221

Office hours: By Appointment

Classroom: TBD

Telephone: N/A

Email: pmclaughlin@fau.edu

TA name: TBD

Email: TBD

Course Description

Introduction to forensic investigations is designed to give students an understanding of the methods, tools, and techniques used by crime scene investigators, forensic scientists, and traditional investigators to forward a criminal investigation. Students will learn how these three groups work together and how accurate and unbiased documentation plays a role in the successful resolution of a crime event. Students will learn the process of crime scene evaluation, documentation, and report writing as well as physical techniques that are vital to the role of the crime scene investigator.

The class will consist of lecture, in class assignments, online assignments, and two focused investigative assignments. Online assignments will consist of latent print development and observational based assessments of mock evidence. Report writing will be emphasized, and students will learn interview techniques commonly needed by crime scene investigators. Students will also be given lecture and hands on opportunities to learn of mindfulness techniques and positive trauma responses very often ignored or underestimated by practitioners.

Lecture materials will be posted to Canvas to supplement textbook readings. In addition, all exercise examples will be posted in video format on Canvas. The instructor reserves the right to add or remove lecture material as time allows in the semester. **It will be vital for students to view or read Announcements.**

Online exercises to be turned in upon viewing the appropriate material.

Instructional Method

In person

Prerequisites/Corequisites

N/A

Course Objectives/Student Learning Outcomes

This course is designed to introduce students to the concepts and principles that forensic investigators utilize when examining crime scenes. Students will be expected to understand and apply these concepts in quizzes and exams based on lecture material. In addition to quizzes, all students will be required to complete assignments within each module. Assignments will require strong observation skills. Students completing this course should be able to:

1. Describe the steps of a forensic investigation.
2. Understand the probative value of physical evidence as it related to a larger investigation.
3. Evaluate and identify the types of physical evidence and how to properly document them.
4. Understand the difference between class characteristics and individualizing characteristics.
5. Apply learned observational techniques into concise reports.
6. Develop note taking skills as applicable to in class exercises and assignments.
7. Apply interview techniques and investigative methods through written term projects.

Policy on the Recording of Lectures

Students enrolled in this course may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. **Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member.** Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

AI Language Specific To This Course

AI Limited: The use of AI to assist in any work assigned in this specific course is limited. Students may make use of AI driven software to enhance their term paper ONLY AFTER THE INITIAL DRAFT IS SUBMITTED AND APPROVED.

Course Evaluation Method

You will be evaluated based on four categories of material: Assignments (50%), Investigative Term Paper I (25%), Investigative Term Paper II (25%).

Course Grading Scale

Total Points	100-93	92-90	89-87	86-83	82-80	79-77	76-73	72-70	69-67	66-63	62-60	<60
Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F

There is no “extra credit”. Quiz and assignment scores will be entered into Canvas as soon as possible. No late work is accepted without proper documentation of an emergency.

“Major core courses must be completed with a grade of “C” or better. A grade of “C-” or lower in major core courses does not satisfy any major requirement and does not count toward the 120 credits required for the degree. Elective courses in the major must be completed with a grade of “C-” or better. A grade of “D+” or lower in general elective courses does not satisfy any graduation requirement and will not count toward the 120 credits required for a degree. Finally, students must maintain a “C” average in all courses applied to the major.”

Attendance Policy

Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student’s responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student’s final course grade as a direct result of such absence.

Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU’s Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>

Disability Policy

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with

Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.

Code of Academic Integrity

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see University Regulation 4.001.

Required Texts/Readings

Ramslund, K. (2016). *Forensic Investigations Methods from Experts* (1st ed.). Kendall Hunt.

Arrowhead Forensics Latent Print Kit

Media Transfer Device

Notebook for class activities

Course Topical Outline

<u>DATE</u>	<u>TOPIC</u>	<u>EXERCISE</u>	<u>NOTE</u>
1	Introduction and Procedures: The Nutshell Diaries		
2	Crime, Scenes, and First Responders		
3	The Psychology of Investigation I		
4	The Psychology of Investigation II Wellness		
5	Case Study: Jack the Ripper		
6	Case Study: Jack the Ripper		
7	Criminal Psychology and Behavioral Evidence I		
8	Criminal Psychology and Behavioral Evidence II	Term Paper Topic Due	
9	Interviews and Interrogations I		
10	Interviews and Interrogations II		
11	Interviews and Interrogations III		
12	Case Study: The Mysterious Death of Rebecca Zahau		
13	Case Study: The Mysterious Death of Rebecca Zahau		
14	Case Study: The Mysterious Death of Rebecca Zahau		

15	Case Study: The Mysterious Death of Rebecca Zahau Wellness		
16	Report Writing I	Case Review	
17	Report Writing II	Scene Review	
18	Report Writing III	Scene Review	
19	Patterns, Impressions, and ID		
20	Patterns, Impressions, and ID		
21	Latent Print Exercise		
22	Case Study: The Long Island Serial Killer		
23	Case Study: The Long Island Serial Killer		
24	Case Study: The Long Island Serial Killer		
25	Case Study: The Long Island Serial Killer		
26	Case Study: The Long Island Serial Killer Wellness		
27	Report Writing IV	Scene Review	
28	Case Study: Jeffrey MacDonald		
29	Case Study: Jeffrey MacDonald		
30	Case Study: Jeffrey MacDonald		
31	Case Study: Jeffrey MacDonald	Term Paper Draft Due	
32	The Courtroom		
33	The Courtroom		
34	Report Writing V	Scene Review	
35	Wellness and Well-being		
36	Investigation Presentations		
37	Term Paper Submission		



FLORIDA ATLANTIC UNIVERSITY

BSC 1010-002 10530

Biological Principles

Date: Tuesday, Thursday 2:00 PM - 3:20 PM

Building: C E Lynn Coll of Nursing Boca **Room:** 113

3 Credit(s)

Spring 2025 - 1 Full Term

Instructor Information

Evelyn Frazier

Email: efrazier@fau.edu

Lecture Instructor : *Dr. Evelyn Frazier*

Office: SC 212 - Sanson Building (#1)

Office Hours: T-Th from 12:15 pm to 1:45pm (walk ins)

Phone: (561) 297-4472 (but email is preferred)

If you CANNOT attend office hours during pre-scheduled office hour times please e-mail me THREE possible times for meetings on T-Th from 10 am to 12:30pm or after class and I will try to fit you into my schedule. Grades can ONLY be discussed WITH the student AND in person according to FERPA laws. If a student would like me to speak with a parent or anyone else they must sign a waiver form found in the registrar's website (<https://www.fau.edu/controller/student-services/privacy/>). It is illegal from me to discuss grades over phone or email.

ONLINE LITE DISCUSSION SESSION Teaching Assistant (see Lifeline "Lite" syllabus for more details)

TA Name: Isabela Beneli Salina Fernandes

Lecture time on ZOOM: Wednesday at 4pm through ZOOM in this Canvas site

Office Hours: Mondays 4-6pm remotely through ZOOM within this canvas site

Email: ifernandes2020@fau.edu

Course Description

Biological Principles

Corequisite: BSC 1010L

In this course students will apply the scientific method to critically examine and explain the natural world. This course will cover molecular biology, cellular biology, genetics, metabolism and replication. This is a General Education course.

Honors Biological Principles (Honors College [HC] version)

Corequisite: BSC 1010L

In this course students will apply the scientific method to critically examine and explain the natural world. This course will cover molecular biology, cellular biology, genetics, metabolism and replication. This is a General Education course.

Prerequisites/Corequisites

Corequisite(s):

Subject	Course Number
BSC	1010L

COREQUISITES:

1. Lifeline Discussion is part of this lecture (MANDATORY): The "Teaching Assistant" for Biological Principles will have a discussion called LIFELINE. Each of the lecture courses with in-person lecture sections (i.e., Dr. Frazier & Dr. Brooks) will have a LIFELINE experience.

LIFELINE is a discussion session that accompanies lecture and is graded (120 pts towards your lecture course grade). STUDENTS DO NOT HAVE TO REGISTER FOR THIS DISCUSSION. ALL STUDENTS IN THIS LECTURE WILL HAVE TO ATTEND LIFELINE LITE DISCUSSION sessions remotely. LIFELINE will utilize the SAME CANVAS SITE as LECTURE. All Lifeline LITE materials and grades will be found in the same canvas site as lecture. LIFELINE has its own syllabus with its own assignments and deadlines (see Lifeline Lite Syllabus). LIFELINE will be taught remotely with ONLY one live online session (synchronous) per lecture which will be recorded and posted for students who cannot attend the live online class. Lifeline "LITE" starts in the first week of classes. Live online Lifeline session takes place weekly on _____TBA_____ These classes will be recorded and posted on Canvas for students who have conflicts of time with the LIFELINE online live lecture (synchronous).

Lifeline is designed with students in mind as a way to gain extra knowledge in important Biological concepts that are vital to success in lecture as well as upper division Biology courses. During the Lifeline sessions, the student will have opportunities to become actively involved in learning biology. In this environment, the student will be expected to take greater responsibility for his/her own learning by applying critical thinking and problem-solving skills to a set of carefully designed activities and tasks. This interactive approach will also promote mastery of skills associated with collaboration, self-managed teamwork, communication, self-assessment and reflection, attributes that have been shown to be desirable in educational settings and the workplace. For example, self-assessment is a valuable skill that enables you to recognize when you have met the learning objectives for a task or activity and an opportunity for you to consider what other improvements you might take to increase your own learning.

Throughout the semester, students will engage in 15 weeks of activities as well as the ability to attend (if registered for an in-person discussion section) or view live recorded discussions. All assignments, quizzes, and lecture recordings will be posted and available through the student's lecture Canvas course. These assignments and quizzes will be differentiated from lecture assignments and quizzes by indicating Lifeline in titles and descriptions. Lifeline grades will be posted in the same Canvas site as lecture and will have the letters LL associated with the assignment or grade. Any questions about Lifeline assignments and grades should be directed to Justin and not Dr. Frazier. For more information, please see the Lifeline syllabus in my Canvas course

2. Biodiversity Laboratory - BSC1011L – is an independent course, with a separate instructor and graded separately, but should accompany this lecture (but can be unlinked from lecture pending university approval, see text below).

CAREFUL WHEN DROPPING THE LAB OR LECTURE because this lab course is “linked” to the lecture, so before you decide to drop this course, unlink the lab from lecture and **ONLY** drop the one that you would like to change. IF you do NOT “UNLINK” all of your linked courses will be dropped at once. Students need to fill out the form to unlink these courses and follow university procedures. I have no control over unlinking courses. The link to the form is:
<https://cescos.wufoo.com/forms/r1jqgy9m1jbcqdk/> (copy and paste link into your browser)

Once your form is approved you should be notified by email that the unlink request was approved. At that point you can drop either the lecture or lab.

Required Texts/Materials

SIMUTEXT Access Code

Publisher: SIMBIOTIC SOFTWARE

PURCHASING THE COMPUTER SIMULATION FROM SIMBIOTIC Software

When registering for SimUText, be absolutely sure you select the BSC 1010-002 course for Dr Frazier's section (or Dr. Brooks's section).

It is important that you review the information below before you subscribe to the SimUText for Biological Principles at Florida Atlantic University. To avoid possible problems, do not wait until the last minute.

1. CHECK YOUR TECH!

Visit <https://simutext.zendesk.com/hc/en-us/categories/200170134-Check-Your-Tech-> to confirm that the SimUText application will work on your computer, and/or to explore your options if there is a problem. IF YOU HAD SIMUTEXT INSTALLED IN YOUR COMPUTER FROM ANY PREVIOUS SEMESTER, YOU WILL HAVE TO UNINSTALL and REINSTALL the new VERSION!

2. SimUText Voucher Code

If you purchased your materials from the FAU bookstore you should have also purchased a SimUText Voucher from your bookstore, be sure to have it with you when subscribing, as you will need to enter your voucher code. You can ALSO PURCHASE THE CODE AT THE SIMUTEXT WEBSITE (link below), if you did not purchase the material from the bookstore. All that you will need is a credit card. The four simulations should cost around US\$24 dollars.

3. Registration Link

When you are ready to subscribe and download installers, follow this link to initiate the process:

<https://simutext2.com/student/register.html#/key/UGwZ-RvXa-A5SB-YhP3-PDWf>

Dr. Frazier's students should enroll in section BSC 1010-002 – Dr. Frazier's section. This will ensure that your grade gets reported to the correct instructor once you complete an assignment or module.

4. SimUText Application Installers

After you have completed the subscription process, if you need to download the SimUText application installers again, you will be able to access them by logging into the SimUText Student Portal (<https://simutext2.com/student/>).

Save this email! Should you encounter problems, you may need your course-specific Access Key UGwZ-RvXa-A5SB-YhP3-PDWf

Problems or questions? Visit SimUText Support (<http://simbio.com/support/simutext>)

Students with Vouchers can obtain their SIMUTEXT codes at the FAU BOOKSTORE or Booksmart store in Boca Raton on 20th street, ONLY. Vouchers are not accepted if purchasing simulation from the SIMUTEXT Website.



I-clicker device

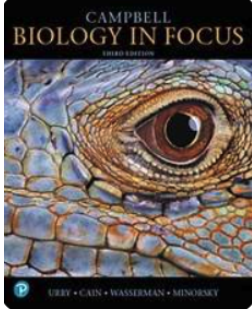
I-clicker: PURCHASE REQUIRED AND available at the university bookstore or online. I will use the old I-clicker version 1, but you can also use the I-clicker version 2. Both will work, but the old one is cheaper and you may have it already. ONLY BUY USED I-clickers if they have a SERIAL NUMBER (numbers on top of the bar code in the back of the device) that you can read!!!! You have to create an account and re-register your I-clicker at <https://www.iclicker.com/>, every semester. STUDENTS CANNOT USE THEIR CELLULAR PHONES!! IF a student has any circumstance that prevents them from obtaining these materials they should see me in private immediately, for I may have some clickers to loan.

Package for Pearson Collections for FLORIDA ATLANTIC UNIVERSITY - BOCA RATON CAMPUS

ISBN: 9780135424230

Publisher: Pearson Learning Solutions

This package will contain the ebook for Biology in Focus (textbook), access to their online platform "Mastering Biology" (not required in this course but student like to have access to it), and the lab manual for BSC 1010L.



Biology In Focus

Authors: Campbell

Publisher: Pearson

This is the hard copy of the textbook. The Bundle sold at the FAU bookstore will contain an electronic version of this book and access to their platform with great videos and animations. ALL scientifically accurate!!! I will NOT use their platform in this course for assignments, so you really do not need the platform, but I know that students like these computer based platforms so it will be available to you if you would like to check it out! Bundle sold at the FAU bookstore may be cheaper but you will lose access to the ebook after 2 semesters.

Required Material - further information

TEXTBOOK: PURCHASE REQUIRED. Students can buy the Book in any format that suits the student, such as e-book, loose leaf, hard copy, etc. I will NOT use the Achieve website for assignments but that website contains the ebook. You do NOT NEED the website for this class, just the book.

I-clicker: PURCHASE REQUIRED AND available at the university bookstore or online. I will use the old I-clicker version 1, but you can also use the I-clicker version 2. Both will work, but the old one is cheaper and you may have it already. ONLY BUY USED I-clickers if they have a SERIAL NUMBER (numbers on top of the bar code in the back of the device) that you can read!!!! You have to re-register your I-clicker every semester and I-clicker will charge you for it. **STUDENTS CANNOT USE THEIR CELLULAR PHONES!!** IF a student has any circumstance that prevents them from obtaining these materials they should see me in private immediately, for I may have some clickers to loan.

- **Registering the I-clicker:**

Although we will not be using the I-clicker device (newer models preferred, but can be "used" - just change batteries to be safe) this week, please make sure you get one before next week, purchased from the FAU Bookstore, Booksmart (in Boca & Lake Worth, <https://booksmartusa.com/>, or online via Amazon, etc.).

I-Clicker Registration: I require that ALL students register their device, even if

- 1) You already registered your I-Clicker device online via the I-Clicker website
- 2) You just completed a course with me in which the device was used.

Registration is a two-step process - you need to create an iClicker Student account, and add your remote ID to that account. Use the links below:

<https://mhe.my.site.com/iclicker/s/article/How-to-Create-an-iClicker-Student-Account>

<https://mhe.my.site.com/iclicker/s/article/How-to-Register-a-Remote-in-the-iClicker-Student-App>

Remember, you must have your device registered to this class, which is listed as BSC-1010- Dr. Frazier - Spring 2025

After you have done the above, nothing else is needed EXCEPT make sure you bring it to each class meeting, as unannounced quizzes can be given any day!

“NO I-Clicker – NO LECTURE QUIZZ POINTS”

Instructional Method

In-Person

Traditional concept of in person. Mandatory attendance is at the discretion of the instructor.

Course Objectives/Student Learning Outcomes

Course Objectives/ Learning Outcomes

Upon completing the course, you will have an understanding and appreciation of the following overlying themes in Biology:

- Nature of science (a dynamic process). Science is constantly changing, and new hypotheses are proposed all of the time.
- Levels of biological hierarchy (different levels of biological order). This course addresses many CONCEPTS. Examination of molecular and cellular levels of biological organization, demonstrate that novel properties arise at each level, eventually giving rise to the properties that we associate with life.

* See “Core Concepts” on last page of syllabus for specific objectives

Faculty Rights and Responsibilities

Florida Atlantic University respects the rights of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede their exercise. To ensure these rights, faculty members have the prerogative to:

- Establish and implement academic standards.
- Establish and enforce reasonable behavior standards in each class.
- Recommend disciplinary action for students whose behavior may be judged as disruptive under the Student Code of Conduct [University Regulation 4.007](#).

Course Evaluation Method

1. Lecture Exams and Quizzes: Four exams will be given. To accommodate for unfamiliarity with testing expectations early on, the first test will be worth 50 points, the second 80 points, the third 100 points, and the fourth 130 points (total = 360pts). There will be no comprehensive final (except for make-up exams; see policy below), but the fourth exam will be given during the final meeting period. There will be 4 scheduled summative quizzes worth 10, 15, 25, and 30 points (total=80 pts)

2. Lifeline Discussion Session: This is an online 50 minute recorded discussion session where the teaching assistant will deliver a lecture or implement an activity. Students who cannot attend the ZOOM live lecture will be able to watch the recording during the week. Lifeline Lite quizzes and assignments will be worth a total of 120 points and will be taken in Canvas under Quizzes. These are weekly quizzes that will close after the due date but students will have one week to take them after viewing the teaching assistant recorded lecture. These quizzes will not be reopened so right them down and read the Lifeline syllabus for more information. The assignments include computer simulations (see Lifeline Lite syllabus for more details)

Extra credit opportunities will only be available to students during in person Lecture and in Lifeline Lite discussions.

GRADE COMPONENTS

Lecture Exams = 360 points

Lecture quizzes = 80 points

Lifeline = 120 points

Total = 560

FINAL LETTER GRADE: The following grading scale will be used for lecture and Lifeline Discussion Sessions. Lab grades are separate. No curve will be used. Extra credit POINTS WILL be automatically added to your total points in the gradebook but have not been included in the scale below. Please do not use Canvas calculations to compute your grade because %'s calculated there may only include points you attempted. Because students sometimes miss quizzes (and exams), this calculation can be incorrect. Once the semester ends and all your grades are in the gradebook, use the "Total" points from Canvas against this scale to calculate your final letter grade.

GRADING SCALE:

Percentage Points.	(560 total)	Letter Grade
90 - 100%	504 - 560	A
87 - 89%	487 - 503	A-

83 - 86%	465 - 486	B+
80 - 82%	448 - 464	B
77 - 79%	431 - 447	B-
73 - 76%	409 - 430	C+
70 - 72%	392 - 408	C
67 - 69%	375 - 391	C-

*63 - 66%	353 - 374	D+
60 - 62%	336 - 352	D
57 - 59%	319 - 335	D-
0 - 56%	0 - 318	F

Minimum Grade for Credit in Biology = C- (other majors should inquire with their academic advisors)

Incompletes can only be given when the student is passing and will be making up the missing grades after the semester ends. FAU biology majors must earn a "C-" or better for credit towards the major.

Course Topical Outline

SCHEDULE OF LECTURES

WEEK	UNIT 1
BOOK CHAPTER	
1st	Introduction: Ten Themes in the Study of Life
1	
2nd	The Chemical Context of Life
2	
	Water and the Fitness of the Environment
2	

3rd 2		Carbon and the Molecular Diversity of Life
3rd	(01/23)	Summative Quiz 1 (15 pts)
2- 3		The Structure and Function of Macromolecules
4th	(01/28)	UNIT 1 EXAM (50pts) (tentative date)
UNIT 2		
4th 4		A Tour of the Cell
5th 5		Membrane Structure and Function
6th 3.3,6		An Introduction to Metabolism
7th 6		Cellular Respiration: Harvesting Chemical Energy
8th 6		Photosynthesis,
8th	(02/27)	Summative Quiz 2 (15pts)
7		Unit 3 - The Cell Cycle and Mitosis
9th	(03/1-7)	SPRING BREAK (no classes)
10th	(03/11)	UNIT 2 - EXAM (80pts) (tentative date)
UNIT 3		
10h 7		Meiosis and Sexual Life Cycles
11th 37/38		Animal Reproduction /Development

12th
8 UNIT 4: Mendel and the Gene Idea

12th (03/27) Summative Quiz 3 (20 pts)
8

13th (04/01) UNIT 3 - EXAM (100pts) (tentative date)

UNIT 4

13h
8, 9 Mendel and the Gene Idea.

14th
9 The Chromosomal Basis of Inheritance

15th
9 The Molecular Basis of Inheritance

(04/17) Summative Quiz 4 (30 pts)

10
From Gene to Protein

16th (04/22-23) Reading days

17th (04/29) UNIT 4 EXAM (130pts) – Tuesday April 29, 1:15pm to 3:45pm

Make-up exams and summative quizzes during the same time slot

Course Grading Scale

Letter Grade	Letter Grade
A	90 - 100%
A-	87 - 89%
B+	83 - 86%
B	80 - 82%

Letter Grade	Letter Grade
B-	77- 79%
C+	73 - 76%
C	70 - 72%
C-	67 - 69%
D+	63 - 66%
D	60 - 62%
D-	57 - 59%
F	At or below 56%

Attendance Policy Statement

Students are expected to attend all their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations, or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances, and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

Attendance: Students are required to attend punctually each lecture as classroom doors will close after 20 minutes of the scheduled class time. Four scheduled I-clicker quizzes (See syllabus section "Schedule of Classes") for points will be given throughout the semester and can be made up provided student follow procedures under syllabus section "Absences from Lecture" below. Unannounced "Formative Quizzes" for extra credit points will be given by the instructor during any class session and cannot be made up if students are absent. These quizzes not only require that the student be present in person, and possess a working I-clicker device to take the quizzes. Students enrolled for this section of Biological Principles course HAVE TO ATTEND AND TAKE THE QUIZZES and EXAMS for this section and NOT ANOTHER section of Biological Principles.

After class doors close 20 minutes into lecture, students ARE NOT ALLOWED TO LEAVE THE CLASS for any reason. IF a student leaves the classroom they will NOT be allowed back in. If you have an emergency let a T.A. know and they may be able to help you. If a T.A. deems the emergency serious they will interrupt class and get my attention.

Absences from LECTURE: If a student misses a quiz “ WITHOUT JUSTIFICATION” (i.e., forgot the clicker or left class early you will lose those points and will not be able to make them up. Writing the quiz answers on paper and giving them to the instructor are NOT an option. A student who misses a SCHEDULED QUIZ OR EXAM, has to email the instructor within four hours of missing the scheduled quiz or exam stating the reason they missed it and provide documentation to back the student reason for missing class. If a student misses a quiz/exam session “WITH JUSTIFICATION,” they MUST PROVIDE PAPER DOCUMENTATION such as doctor's note, jury duty, mechanic invoice, etc WITHIN ONE WEEK of the absence. IF you provide the faculty documentation to excuse your absence within ONE WEEK of your absence you will be allowed to make-up the Summative quiz that you have missed in the last day of class after exam 4. ONLY SCHEDULED SUMMATIVE QUIZZES CAN BE MADE-UP AND ONLY FOR STUDENTS WITH EXCUSED ABSENCES. If students miss a class quiz without excusing the absence there will be no make-ups and the student will have a grade of zero.

Tardiness during regular class: Classroom doors will be CLOSED 20 minutes into lecture. After that the doors will be closed and students will NOT BE ALLOWED IN the class. IF you arrive on time and the door is closed, chances are we are having a quiz and NO ONE is allowed in during a quiz. Do not fret, doors will open again immediately after the quiz is done if that happens in the first 20 minutes of class. After 20 minutes of the start time of class doors will remain closed and NO ONE will be allowed in the classroom.

Classroom Etiquette Please “NO TALKING” during class. You may be asked to leave the classroom for these types of distractions. If you have a question or something to add to a discussion, raise your hand and wait to be acknowledged. You should get to class on time and not leave before the end of class. If you must leave early, let me know before class and I will ask you to sit at the back near an exit to minimize distractions and to sign the attendance sheet (also, see Attendance section above). Students must be respectful to T.A.'s teaching assistants for they are FAU staff and are present during lecture to enforce MY RULES. Any DISRESPECT TO T.A.'s may result in a student being asked to leave the classroom. If a student is ASKED TO LEAVE CLASS because they have not followed any of the rules in this syllabus I will apply a penalty of 50 (11%) point deduction from their final grade for EACH infraction.

Leaving the classroom during a LECTURE: Students are NOT allowed to return to class once they leave the classroom. This procedure has to be implemented to minimize the disruptions caused by students leaving and coming back to class, after going to the bathroom, answering phone calls, getting coffee at starbucks, etc... IF you HAVE TO LEAVE CLASS, please take all your belongings with you.

Medical Emergencies: IF you have a medical emergency during class, please notify the T.A. at the back of the room and they will notify me or obtain medical assistance for the student. The T.A. will stay with you until medical help arrives. Please notify the T.A. BEFORE leaving due to a medical

emergency because such event would qualify as an excused absence but they need to give me your full name.

Students who register into this class late, after drop/add – Students who register late, AFTER THE DROP/ADD date are responsible for reading this syllabus and MEETING with me to ensure that the student's name is included in the I clicker roster that I use to assign points to students. IF a students who added this course late DOES NOT contact me they will NOT HAVE ANY POINTS for quizzes.

POLICY ON COMMUNICATION DEVICES DURING CLASSTIME

University “Communication Devices” Policy: “In order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cell phones, are to be DISABLED IN CLASS SESSIONS” (2021-2022, University Catalog). Communication Devices now include much more than just cellphones. In addition to “wifi” and/or “cell signal-connected” laptops and tablets, wearable electronics are increasingly common and sophisticated, including smart watches, smart bracelets, smart bands, and smart necklaces. Therefore, because of the challenge in quickly and positively identifying such items from other wrist wear (especially in classes with hundreds of students), and the potential for communication or video/camera capabilities, smart watches/bracelets/bands (fitness or others) and any other WRIST WEAR that cannot easily and quickly be excluded as “smart” devices (which includes Watches, Electronic and Mechanical Devices) must be removed during quizzes/exams. Additionally, mechanical pencils cannot be used during exams as some are known to possess audio/video recording capabilities.

Electronic Devices Policy - Electronic communication devices such as cellphones must be powered off and stored completely out of view with one exception - to record lectures. Using such devices during class for communication purposes (i.e., texting, audio or video phone calls), web surfing and social networking is not allowed. Students can also use dedicated recorders.

Laptops/tablets can also be used specifically for recording lectures and notetaking, but not for communication purposes, web surfing or social networking.

Any electronic device used for the approved academic purposes listed above must be silenced (i.e., do not disturb) so that no interruption of classroom decorum occurs.

During quizzes and exams, all electronic devices (cell phones, laptops, tablets, watches, smart glasses, fitness bands, etc.) must be turned off and stored completely out of view.

We will continue to utilize I-clicker devices in this class for quizzes (no phones).

During quizzes and exams, all electronic devices (cell phones, laptops, tablets, watches, smart glasses, fitness bands, etc.) must be turned off and stored completely out of view.

Students who break the rules will be asked to leave and the following penalties will be imposed:

1. During Non-Quiz/Exam times will result in the loss of all available quiz points that day – even if the student took all quizzes that same day.
2. During Quizzes will be loss of all available quiz points that day – even if the student took all quizzes that same day.
3. During Exams will be loss of minimally 50% of available Exam points that day – even if the student completed the exam.

We also reserve the right to pursue ALL instances of cheating fully, including an automatic F in the course and notation on the student's University record! (see Code of Academic Integrity)

Policy on the Recording of Lectures

Students enrolled in this course may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

Artificial Intelligence Preamble

FAU recognizes the value of generative AI in facilitating learning. However, output generated by artificial intelligence (AI), such as written words, computations, code, artwork, images, music, etc., for example, is drawn from previously published materials and is not your own original work.

FAU students are not permitted to use AI for any course work unless explicitly allowed to do so by the instructor of the class for a specific assignment. [\[Policy 12.16 Artificial Intelligence\]](#)

Class policies related to AI use are decided by the individual faculty. Some faculty may permit the use of AI in some assignments but not others, and some faculty may prohibit the use of AI in their course entirely. In the case that an instructor permits the use of AI for some assignments, the assignment

instructions will indicate when and how the use of AI is permitted in that specific assignment. It is the student's responsibility to comply with the instructor's expectations for each assignment in each course. When AI is authorized, the student is also responsible and accountable for the content of the work. AI may generate inaccurate, false, or exaggerated information. Users should approach any generated content with skepticism and review any information generated by AI before using generated content as-is.

If you are unclear about whether or not the use of AI is permitted, ask your instructor before starting the assignment.

Failure to comply with the requirements related to the use of AI may constitute a violation of the [Florida Atlantic Code of Academic Integrity, Regulation 4.001.](#)

Proper Citation: If the use of AI is permitted for a specific assignment, then use of the AI tool must be properly documented and cited. For more information on how to properly cite the use of AI tools, visit <https://fau.edu/ai/citation>

AI Language Specific To This Course

- AI Flexible: The use of AI to assist in work assigned in this specific course is permitted only for specific assignments as indicated by the instructor. Use must be properly documented and cited per instructor guidelines (<https://fau.edu/ai/citation>).
- AI Prohibited: The use of AI to assist in any work assigned in this specific course is prohibited.

Time Commitment Per Credit Hour

For traditionally delivered courses, not less than one (1) hour of classroom or direct faculty instruction each week for fifteen (15) weeks per Fall or Spring semester, and a minimum of two (2) hours of out-of-class student work for each credit hour. Equivalent time and effort are required for Summer Semesters, which usually have a shortened timeframe. Fully Online courses, hybrid, shortened, intensive format courses, and other non-traditional modes of delivery will demonstrate equivalent time and effort.

How TO STUDY FOR THIS COURSE

HOW TO SUCCEED IN THIS COURSE

Student Participation: Although class size is large, students are encouraged to ask questions and get involved. Formative I-clicker quizzes will be used to stimulate participation and MAYBE be worth extra credit points. These points are ONLY available to students that are present in class that day. Feel free to ask questions, if something is unclear to you, most likely someone else has the same

question. For questions outside of class, you may ask me by coming to my office hours. I will GLADLY see you during OFFICE HOURS or by APPOINTMENT. Please restrict your visits to my office during office hours. If my office hours conflict with your schedule please email me three possible times in which you can meet during the week and I will do my best to set an appointment with students at a different time. You will have computer simulations to do at home and those are MANDATORY and for points.

Time Commitment: Success in this class requires significant effort and time. The course is designed for biology majors – those who are not biology majors may find the time commitment significant compared to courses in their respective majors. Make sure your schedule is appropriate for the time you have available to study. Too many credits of rigorous courses simultaneously can spell disaster. If you are not sure about your schedule, please ask me early in the term.

Learning Strategies: Learn about how YOU learn best:

- Are you a visual learner? Rewriting your notes, working through diagrams, pictures, or flashcards might work for you;
- Are you an auditory learner? Then recording lecture and listening to it while you drive might work for you;
- Are you a kinesthetic learner? Then you might need to work through problems, computer simulations, or have the material in your hands to understand how it works;
- Maybe you have a combination of two of these learning strategies.....
- Are you a group learner? Start study groups with other students (ONLY plan a study group meeting after you have had time to study the material, study groups do NOT WORK when nobody knows anything); etc.
- I will gladly discuss your learning strategies with you during office hours

HOW TO STUDY FOR THIS CLASS: Regardless of your learning strategy, this course is CONCEPTUAL, meaning that you will have to UNDERSTAND THE CONCEPTS and NOT MEMORIZE THEM!! In preparation for classes students should read the corresponding book chapter (listed in syllabus schedule) and read the lecture slides (posted in Canvas under FILES) BEFORE coming to class, then rewrite your notes after class and study them every day to keep up with the material. My lectures contain mostly pictures or diagrams, the students will have to write down the pertinent information as I mention during class and are welcome to record class by using a recorded ONLY (no phones or other devices – see electronics policy for this class). If you fall behind it might be difficult to catch up. Also use animations and videos (posted in Canvas) to help you understand the material.

Exam and Quiz Procedures

EXAM-DAY Requirements and Procedures - In PERSON Exam ONLY

What to bring: You must have:

1. Photo ID (e.g., FAU Owl Card, Driver License or other Legal Photo ID card/document)
2. One Scantron [General Purpose Answer Sheet (blue)] – it cannot be wrinkled, folded, pre-bubbled in or marked
3. Number 2 Pencil with the eraser attached (NOTE: mechanical pencils are not allowed)

What to do when you get to the classroom.

1. Please wait outside the classroom on the days of Exams.
2. When we are ready, form a line by the designated door wherein we will require the following to enter.
3. All electronic devices (e.g., phones, laptops) must be powered off and stored away (in book bags, etc.) BEFORE you enter the classroom. Any such items in view or in hands after entering the classroom may cause the student to be ineligible for taking the exam and subsequently asked to leave the classroom.
4. Your Photo ID will be collected temporarily and returned to you once you have turned in your completed exam and scantron.
5. Your Scantron (unmarked) will also be collected.

NOTE: Failure to provide both the Photo ID AND Scantron will mean you CANNOT ENTER/ TAKE EXAM!

Please check the day before, and again the morning of, that you have both of these items and remember to bring them.

Only in extraordinary situations will a missing Photo ID result in eligibility for a makeup exam (e.g., stolen items,

Including the Photo ID – a police report must be provided).

What to do when you are allowed into to the classroom (after collection of Photo ID & the Blank Scantron)

1. Once you have been allowed in, ALL STUDYING AND TALKING TO PEERS MUST CEASE.
2. Please follow the instructions of the proctors and instructor as we will be assigning seats. Proceed to seat assigned.
3. Before you sit at your assigned seat, put all items underneath the seat except for a Number 2 pencil

with the eraser attached
4. All mechanical/electrical items should have been powered off and put completely out of sight BEFORE you entered the

classroom (this includes but is not limited to Laptops, Tablets, Phones, Calculators, Watches, Smart Watches,

Smart/Fitness Bands, Mechanical Pencils, etc.). Long sleeves should be rolled up to the elbows so we can check for

wearable devices.
5. Hats must be removed (except those used for religious purposes)
6. Glasses must be worn or put away completely
7. The instructor and proctors have the right to see your exam or inspect your table and chair at any time during an exam.

Exam/Scantron Instructions

1. Once you have the exam with the scantron already attached you may start (Note: The scantron you were required to give us at the entry door is a replacement for the one we already attached to your current exam.)
2. Both Exam and Scantron must remain flat on the desktop surface, except when flipping pages on a multi-paged exam. Neither Exam nor Scantron can be placed on the students lap or held up off the surface of the desktop.
3. Do not write or make any temporary marks on the actual exam. Points will be deducted for any marks made on the actual exam.
4. Write the exam number/version across the very top margin of the scantron.

5. Bubble in your last name, then your first name. Then write your last name, then first name.
6. Bubble in your Z-number in the Identification Number section of the scantron (this must be memorized). Then write your Z- number in the same section. Without a Z number your grade will NOT be posted.
7. Once finished, bring the exam, scantron and paperclip to the front desk to retrieve your ID. When there are lines of students waiting, please follow the instructions of the proctors about where and how to proceed. But no additional work on the exam may occur while waiting in line; i.e., once you leave your seat pencils must be put away while in line. Again, all electronic devices must be powered off and out of site until after you leave the classroom.
8. After turning in your completed scantron, exam and paperclip, and they return your Photo ID, please exit through the designated door QUIETLY (i.e., no talking and please do not let doors slam).

QUIZZES: The I-Clicker device will be used for the two kinds of quizzes. IN PERSON Lecture quizzes ONLY

In-class Scheduled Summative Quizzes (I-clickers) (Total of 80 points): There will be 4 Summative Quizzes (SQ), worth 10, 15, 25 & 30 pts. The tentative dates are listed in the Topics Schedule and can be administered anytime during class. Each student will be required to purchase and register (see instructions under required material) an I-Clicker Remote and must bring it to class EACH lecture. The I-Clicker remote will be used to administer unannounced I-clicker quizzes throughout the term to ensure that students are attending class and are prepared each time. Being prepared for each class meeting means having read and studied textbook reading assignments and class notes including information to be covered in class that day. **YOU HAVE TO BE IN CLASS AND USE YOUR I-CLICKER TO EARN THESE POINTS.** Schedule of summative quizzes can be found in the syllabus "Schedule of Lectures". All the material previously covered for a specific UNIT, before the quiz is fair game for the quiz questions, and will be a preparation for the exam that take place in the following class! **STUDY!!! THESE QUIZZES CUMULATIVELY ARE WORTH MORE THAN EXAM 1 AND ARE EQUIVALENT TO EXAM 2.** Quizzes may be given at any time during a lecture so be on time and don't leave early. If a student misses a Regular quiz "WITH JUSTIFICATION," they must follow the makeup quiz/exam policy outlined below. Also recall, I may give multiple quizzes during the same lecture!!!

Procedure for Taking I-clicker quizzes: Students should remove all watches and other devices with batteries from their body and keep them out of sight within a pocket or backpack. Remove all materials from their desks and place them out of sight, on the floor or under the seat during the quiz. Students should NOT communicate with each other during a quiz. Communication may involve talking, sign language or any other type of communication. Students should have BOTH hands on the TABLE while taking the quiz. This is to prevent students from clicking on a second I-clicker, which

could be on their laps, pockets, purses or backpacks. When an I-clicker quiz is given in the beginning of class, the classroom door will be closed and no student will be allowed in class until the quiz session is done, at which point the door will be opened for students to come into class. Classroom doors will be closed after 20 minutes of the class start time.

An undetermined number of Diagnostic Quizzes (DQ) (i.e., extra credit Pop quizzes worth up to 1pt) will also be given during lecture. DQs may also be given at any time during a lecture, so be on time and do not leave early. DQs will be announced just minutes before they occur by my stating "Please get out your I-clicker." Actually, you should keep it out at all class times so you are ready quickly to take such quizzes.

These quizzes are given to ensure that students are preparing throughout the Unit duration rather than waiting until the day before and "cramming" for the exams. Being prepared for each class meeting means having read and studied textbook, lecture booklet, lecture PPTs, and class notes including information to be covered in class that day.

If a student misses an SQ quiz or exam "with justification," they must follow the Makeup Exam/Quiz Policy outlined in the make-up exam section of this syllabus. DQ quizzes are unannounced and extra credit; therefore, they cannot be made up even with justification.

EXAM/QUIZ SCORE 'Statute of Limitations' Policy: Once quiz/exam scores have been posted on Canvas by the instructor, students will have ONE WEEK to check quizzes/exams and dispute grades. After 7 days students will NO LONGER be able to review exams or quizzes and grades will be final.

Policy on Make-up Tests, Late work, and Incompletes

Make-up QuizExam Policy: A make-up summative quiz/exam will be given on the same day of Exam 4 (see syllabus schedule) only if the student can provide a written, verifiable excuse for their absence from a quiz or exam. There are no exceptions to this policy; so please don't ask! If you are ill or have some other valid reason for missing an exam/quiz, you must notify me either before or within four hours of the test time. You may contact me either at (561) 297 4472 (I have voice mail) or by e-mail. This notification DOES NOT, HOWEVER, EXCUSE YOUR ABSENCE; it simply informs us that you are absent and will bring a WRITTEN, VERIFIABLE EXCUSE (with telephone # for verbal verification) from a professional upon your return to school. Students will have ONE WEEK to TURN in THEIR EXCUSE. No documentation will be received after one week, unless the person is in the HOSPITAL.

WHAT QUALIFIES AS AN EXCUSED ABSENCE?

“...legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations, or participation in University-approved activities.” (FAU Catalogue, 2021-2022).

*Missing class for things like weddings, vacations/trips & reunions are NOT excused absences.

How will the student know if their request for an excused absence was accepted?

The student should submit to me their documentation within ONE WEEK OF THE Absence, I will review the documentation, and if approved, I will place a grade of 0.01 for the missed Quiz/Exam. Any student with a 0.01 is entitled to a make-up. Students who do not see the grade of 0.01 but turned in documentation should email me. I will not contact students via email. Once the make-up is completed during the same day of exam for Unit 4 I will replace the 0.01 grade by the grade obtained in make-up.

If a person misses either Unit I, II or III summative quiz/exams, and follows the protocol outlined above, they will be allowed to make up such summative quiz/exams ONLY during the final exam class period, after they complete exam four. The make-up exam will be a COMPREHENSIVE ESSAY QUIZ/EXAM covering topics from the entire course. However, the point value of this exam will be equal to whichever exam was missed (either 50,80,100 points). Comprehensive summative quizzes/exams are not available to students who have taken each of the three scheduled exams. Comprehensive summative quizzes/exams are cumulative exams on Units 1,2,3 and 4

Students who fail to show up for Exam 4 will receive a grade of zero for that exam unless there is documented and acceptable justification. Students that fall under this prior condition must notify me BEFORE THE EXAM STARTS and turn in the documentation within 24 hours of the exam. Failure to do so will result in a zero for that exam. Those students will be assigned a letter grade of "Incomplete" IF they have a passing grade of C- and will have to take a make-up exam with the class in the following Spring (students have one year to complete this make-up exam). IF students do NOT have a passing grade and missed exam 4 they will not be able to make-up the exam.

For making up procedures for Lifeline quizzes see Lifeline syllabus

Grade Appeal Process

You may request a review of the final course grade when you believe that one of the following conditions apply:

- There was a computational or recording error in the grading.
- The grading process used non-academic criteria.
- There was a gross violation of the instructor's own grading system.

[University Regulation 4.002](#) of the University Regulations contains information on the grade appeals process

Communicating with your instructors

E-mail: All students are required to check their FAU e-mails every day once a day. EMAIL me through your FAU gmail account and NEVER IN CANVAS! I do not check the Canvas inbox!!! Your instructor, as well as your lifeline leader, will be communicating with you personally via E-mail. DO NOT have your FAU account forwarded to AOL or other e-mail sites because some messages will NOT make it to you. DO NOT EMAIL me through CANVAS, because I DO NOT CHECK emails in CANVAS. Students should email me through the MyFau email system. DO NOT DO A REPLY to my Canvas announcements because those messages do not come to MyFau email, they stay within CANVAS and I do NOT SEE THEM! Always use your FAU email when communicating with faculty so we know you are a student at FAU. I do not answer emails from non FAU accounts.

E-mail Etiquette: Wait 48 hours to obtain a response, before bombarding your instructor or T.A. with e-mails. DO NOT expect an answer to your e-mail during holidays or weekends!! When e-mailing your T.A.'s, faculty or staff at FAU, please write e-mails in a professional format. WE ARE NOT YOUR BUDDIES! We have a PROFESSIONAL relationship and you should be trained to correspond in a professional manner. Here are some suggestions: Greetings: refer to the faculty as Dr. Last Name (doctor), T.A.'s and FAU staff as Mr. LAST NAME or Mrs./Ms. LAST NAME; Subject line of the e-mail should include: Course name or number: i.e. Bioprinciples or BSC1010; and ALWAYS write your FULL NAME (in a class of this size we can have 10 Smiths, 5 Jennifers, etc).

Example: Subj: BSC 1010- Biological Principles,

Body of message: Hi Dr. Frazier, my Full name is Jane Doe and my questions is.....

INAPPROPRIATE E-mail example: "yo, what is my grade b4 the final?" NEVER USE abbreviations such as used in text messaging. Such e-mails will NOT be answered.

Canvas: is an online educational program that ALL students enrolled in this class have FREE access to. All you need to do is go to <http://canvas.fau.edu> and follow procedures to create a LOGIN. All powerpoint presentations, exam and quiz grades and announcements pertinent to this class can be found in Blackboard. DO NOT ACCESS Blackboard using AOL, due to incompatibilities between the two programs.

Disability Policy

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across

three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.

Code of Academic Integrity

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

Student Honor Code: Students must have only ONE I-clicker with them in class at all times. Any students observed with 2 or more I-clicker devices on them will be considered to be cheating, regardless of whether there was an i-clicker question given. All instances of cheating will be pursued fully, which means an automatic “F” in the course and notation on the student’s University record for academic irregularity (see honor code 6c5-4.01)

Policy on Dishonest Behavior in Class Assignments – Cheating includes using 2 I-clickers or using I-clickers outside of classroom in an attempt to record attendance, plagiarizing ideas or work, etc. IF a student’s I-clicker is used during class but the student is NOT present, the owner of the I-clicker will be given an “F” in the course, as well as a notation on their academic record. If a student is caught using a second I-clicker or an I-clicker that is NOT their own, they will also be punished with an “F” in the course. All instances of cheating will be pursued fully, including an automatic “F” in the course and notation on the student’s University record (see honor code 6c5-4.01)

POLICY ON DISHONEST BEHAVIOR DURING EXAMS – To reduce the opportunity for cheating during exams, students are NOT allowed to have cellular phones, or any other electronic device on them during the exams. Cellular phones should be placed inside a purse or backpack on the floor. You are NOT ALLOWED TOUCH OR USE cellular phones or any other electronic devices to place or answer calls DURING EXAMS. DO NOT BRING ANY NOTES OR BOOKS INTO THE ROOM WHEN TAKING AN EXAM. Any such activity will be interpreted as cheating and the phones will be confiscated as evidence of cheating and the student will be given an “F”. Any student caught cheating looking at someone else’s exam or any other source of information other than their own “brains” will be given an “F” for the course. Students that are caught cheating will also undergo the university scrutiny and could have remarks regarding academic dishonesty added on their transcripts. “Cheating does NOT pay”. All NOTES AND ELECTRONIC DEVICES should be put away and OUT OF SIGHT inside a backpack or purse and MUST be stowed UNDERNEATH the SEATS AT ALL TIMES. IF notes are found in sight the student will receive an “F” in the course and a notation will be made in their transcripts. IF a student is caught with TWO or more copies of an exam, or have another

student's exam or portion of an exam on them during an exam, they will also receive an "F" in the course and a notation will be made in their transcripts.

Religious Accommodation Policy Statement

In accordance with the rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices and beliefs regarding admissions, registration, class attendance, and the scheduling of examinations and work assignments. University Regulation 2.007, Religious Observances, sets forth this policy for FAU and may be accessed on the FAU website at www.fau.edu/regulations.

Any student who feels aggrieved regarding religious accommodations may present a grievance to the executive director of The Office of Civil Rights and Title IX. Any such grievances will follow Florida Atlantic University's established grievance procedure regarding alleged discrimination.

Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual therapy, group therapy, and crisis services, to name a few - offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>

Student Support Services and Online Resources

- [Center for Learning and Student Success \(CLASS\)](#)
- [Counseling and Psychological Services \(CAPS\)](#)
- [FAU Libraries](#)
- [Math Learning Center](#)
- [Office of Information Technology Helpdesk](#)
- [Center for Global Engagement](#)
- [Office of Undergraduate Research and Inquiry \(OURI\)](#)
- [Science Learning Center](#)
- [Speaking Center](#)
- [Student Accessibility Services](#)
- [Student Athlete Success Center \(SASC\)](#)
- [Testing and Certification](#)

- [Test Preparation](#)
- [University Academic Advising Services](#)
- [University Center for Excellence in Writing \(UCEW\)](#)
- [Writing Across the Curriculum \(WAC\)](#)

CORE CONCEPTS

CORE CONCEPTS

UNIT 1

- A basic understanding of the scientific method is necessary.
- Hierarchy of life: atoms → molecules → cells → tissues → organs → systems
- To understand biology a basic understanding of chemical processes is covered
 - o The emphasis here is basic atomic structure and three energetic tendencies (ET's):
 1. + and – charges of elements tend to balance
 2. Electrons tend to pair
 3. Electron shells tend to fill
 - These ET's help explain why elements bond.
 - o Properties of water, including hydrogen bonding and pH are covered.
 - o Basic concepts of organic chemistry are covered, including how carbon can form macromolecules (carbohydrates, lipids, proteins, and nucleic acids).

UNIT 2

- The cell is a major unifying, evolutionary theme. Cell theory = all organisms are made of cells and come from cells.
 - o Cells are small so cell membrane can control the constituents of life found within. As cell size increases, membrane gets smaller compared to cell volume. Transport across the membrane is essential to maintaining life, as materials must go both ways while homeostasis is regulated.
 - o All functions necessary for life are in the cell, including special membrane-bound structures call organelles found in eukaryotes. Prokaryotes can perform same functions in a less complex cellular format.

□ Nucleus houses DNA, another major unifying, evolutionary theme. “All” organisms carry their genetic information in the form of DNA (prokaryotes do not have nuclear membranes but still possess DNA).

□ Mitochondria produces the majority of ATP for the cell in eukaryotes. Mitochondria possess DNA/RNA, which suggests they were bacteria that developed an endosymbiotic relationship with other cells.

□ Chloroplasts produce food molecules using sunlight (photosynthesis). They also have DNA/RNA suggesting an independent organismal existence at one time.

- Natural laws (thermodynamics) dictate that cells of organisms require energy to maintain their structure and function and thus living condition.

- Through chemical reactions energy can be attained and stored. Exergonic reactions release energy while endergonic reactions require a sufficient amount of energy to create complex products (e.g., macromolecules). This is cellular metabolism, which involves releasing energy from food molecules (catabolism) and using this energy to build cells, tissues, etc. (anabolism). Enzymes are necessary for these reactions to occur at efficient and safe levels.

- Biochemistry involves the chemical reactions involved in transferring energy to produce ATP from food (cellular respiration) and the production of food (photosynthesis or chemosynthesis). A significant unifying, evolutionary theme is all organisms use and produce ATP in the same basic way. The food and oxygen produced during photosynthesis is key to the survival of much of life on Earth.

UNIT 3

- Cells must reproduce either to perpetuate the species or create a multicelled individual. Cell reproduction involves mitosis (duplication and division of the nucleus) and cytokinesis (division of the rest of the cell). Cells produced in this fashion are identical (clones).

- But evolution by natural selection requires variation in the offspring. The diversity of life is a result of this variation. Meiosis is a form of cell reproduction involved in organisms that reproduce sexually. Along with random mutations that can occur, meiosis scrambles the genetic information from both of the parents and reduces the chromosome number by $\frac{1}{2}$ to produce eggs and sperm. At fertilization, the full complement of paired chromosomes are restored.

UNIT 4

- The features/characteristics of the organism are dictated primarily by the genes inherited from the parents. Mendel worked out the basic concepts of inheritance patterns. Complex interactions can occur among genes.

- The genome of the organism is represented in each cell except for gametes (which have half of the genome). Complex interactions among cells in tissues determine which genes are active and where during development. That is, cells that form bone have genes for bone development activated. Whereas cells in muscle tissue also possess bone developing genes, but these genes are not activated. This molecular genetics process allows for organisms to develop those features particular to species.
- The key to gene function is the information/instructions to produce proteins. The genes located along the DNA must first be copied by messenger RNA, which is translated outside the nucleus by ribosomes that produce the appropriate protein. Mutations occur randomly and are valuable sources of variation to help create the diversity of life.

Title IX Statement

In any case involving allegations of sexual misconduct, you are encouraged to report the matter to the University Title IX Coordinator in the Office of Civil Rights and Title IX (OCR9). If University faculty become aware of an allegation of sexual misconduct, they are expected to report it to OCR9. If a report is made, someone from OCR9 and/or Campus Victim Services will contact you to make you aware of available resources including support services, supportive measures, and the University's grievance procedures. More information, including contact information for OCR9, is available at <https://www.fau.edu/ocr9/title-ix/>. You may also contact Victim Services at victimservices@fau.edu or 561-297-0500 (ask to speak to an Advocate) or schedule an appointment with a counselor at Counseling and Psychological Services (CAPS) by calling 561-297-CAPS.



FLORIDA ATLANTIC UNIVERSITY

BSC 1010L-002 10590

Biological Principles Lab

Date: Monday 12:00 PM - 2:50 PM

Building: Sanson Life Sciences Bldg Boca **Room:** 145

1 Credit(s)

Spring 2025 - 1 Full Term

Instructor Information

Anna Kingham

Email: akingham2022@fau.edu

Torrell Dixon

Email: tdixon15@fau.edu

Olivia Fletcher

Email: ofletcher2024@fau.edu

Heather Seaman

Email: hseaman2018@fau.edu

This syllabus is subject to change

TA Name: Olivia Fletcher

TA Email: ofletcher2024@fau.edu

TA Office Location: SC250

Office Hours: Monday, 9:00-11:00am

Course Description

Biological Principles Lab

Corequisite: BSC 1010

An introduction to general laboratory procedures to demonstrate the basic principles of biology. This is a General Education course.

Honors Biological Principles Lab (Honors College [HC] version)

Corequisite: BSC 1010

An introduction to general laboratory procedures to demonstrate the basic principles of biology. This is a General Education course.

Instructional Method

In-Person

Traditional concept of in person. Mandatory attendance is at the discretion of the instructor.

Prerequisites/Corequisites

Corequisite(s):

Subject	Course Number
BSC	1010

Course Objectives/Student Learning Outcomes

This comprehensive lab course introduces students to the fundamentals of biology, including the scientific method, molecular biology, energy transformation, cell biology, reproduction, genetics, and sexually transmitted diseases. The labs are concept-based and relate to topics covered in lectures. Upon completion of the course, students will be able to identify basic macromolecules and their functions, cellular structures and organelles, biological concepts and processes including movement, enzymes, cellular respiration and photosynthesis, cell division, fertilization and development, genetics, DNA and protein synthesis. They will also be able to design and carry out an experiment using the scientific method, as well as learn the basics of scientific writing.

Required Texts/Materials

Lab Coat

Package for Pearson Collections for FLORIDA ATLANTIC UNIVERSITY - BOCA RATON CAMPUS

ISBN: 9780135424230

Authors: Pearson

Publisher: Pearson Learning Solution

This course requires a print lab manual compiled by Professor Dixon plus a Mastering Biology access code. The campus bookstore offers a package deal where you can receive a Mastering access code plus the lab manual for \$104. Please purchase from the campus bookstore as this will be the most affordable price and give you your materials for the lecture and lab sections (1010/1010L). If you've already purchased this bundle for your lab course, the same access code will work for your lecture section. Please see the Student Registration Instructions provided in your Canvas course for more information.

Faculty Rights and Responsibilities

Florida Atlantic University respects the rights of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede their exercise. To ensure these rights, faculty members have the prerogative to:

- Establish and implement academic standards.
- Establish and enforce reasonable behavior standards in each class.
- Recommend disciplinary action for students whose behavior may be judged as disruptive under the Student Code of Conduct [University Regulation 4.007](#).

Disability Policy

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.

Code of Academic Integrity

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes

with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

Attendance Policy Statement

Students are expected to attend all their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations, or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances, and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

ATTENDANCE IS MANDATORY!!!!!!!

Three unexcused absences can possibly result in failure of the course.

- **Attendance is not optional; it is required.**
- If you miss a lab, you will receive a "zero" for all of the associated points for that lab.
- If you must miss a lab (unexcused), you must attend the weekly make-up lab for an opportunity to make up the lost points.
- **EXAMS MUST BE TAKEN IN YOUR ASSIGNED CLASS SECTION.
THERE ARE NO MAKE UP EXAMS!!!!!!!!!!**

**The make-up lab is held every Friday at 3:00 pm in SC
145.**

- **You can only attend the make-up lab 2 times per semester to receive points.**

- If you attend the make-up lab after the second time, you will not receive any credit. (This does not apply for Excused absences) *Excused absences are absences due to a university approved reason for being absent (You must have legitimate documentation)
- **You MUST attend the ENTIRE make-up lab session. Leaving early will result in a zero for the lab that you were making up.**
- If you know in advance that you will be absent, notify your TA and make arrangements to attend the make-up session.
- If you need to be absent for religious holidays, please present documentation prior to your absence, and we will make every effort to be accommodating.

DO NOT BE LATE!!!!

- **DO NOT BE LATE TO YOUR EXAM!!!!!!** ONCE THE EXAM BEGINS YOU WILL NOT BE ALLOWED TO ENTER THE ROOM AND WILL RECEIVE A ZERO. Quizzes and exams will begin 5 minutes after our scheduled class time and the doors will be locked at that time.
- **During the weeks that quizzes are scheduled, quizzes are given during the first 20 minutes of the lab (This includes the make-up lab).**
- **If miss the quiz, then you must attend the ENTIRE make-up lab on Friday to take the quiz and earn your in-lab participation points.**

Policy on Make-up Tests, Late work, and Incompletes

The make-up policy applies only to students with excused absences as defined by the FAU Academic Policies and Regulations.

- A student who has an **excusable** prior commitment that cannot be rescheduled and forces them to miss a lab session must notify the TA in writing via email at least one lab session (one week) in advance to

make arrangements to either attend another lab session during the same week or make up the work at another time or in another way.

- **Students may not switch lab periods to make up excused absences without prior arrangement.** Lab sections may be filled to capacity, and adding additional students is prohibited by the fire code. Therefore, TAs are not required to accept extra students who appear unannounced to their lab section.

Students who unexpectedly miss a lab session for a valid reason must notify the TA about the reason for the absence and provide documentation as soon as possible after the missed lab, but no later than the end of the week or within (5) business days.

- Students may not be able to make up specific lab exercises or in-person activities due to the logistics but will be given accommodations if the terms for an ***excused university approved absence*** are met.
- Students are responsible for material covered in missed labs, regardless of whether the absence was excused or unexcused.
- No makeup quizzes will be given, and no late assignments will be accepted without a valid reason as defined by the policy above.

Religious Accommodation Policy Statement

In accordance with the rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices and beliefs

regarding admissions, registration, class attendance, and the scheduling of examinations and work assignments. University Regulation 2.007, Religious Observances, sets forth this policy for FAU and may be accessed on the FAU website at www.fau.edu/regulations.

Any student who feels aggrieved regarding religious accommodations may present a grievance to the executive director of The Office of Civil Rights and Title IX. Any such grievances will follow Florida Atlantic University's established grievance procedure regarding alleged discrimination.

Laboratory Rules

Safety First

- **Closed toed shoes and a lab coat are required to be worn in the lab at all times.**
 - No flip flops, sandals, or crocs.
 - If you arrive to the lab without a lab coat or closed-toe shoes, **you will not be permitted to enter the lab** and will be asked to attend the make-up lab on Friday. Failure to attend the make-up lab that week will result in forfeiting all points associated with that lab.
 - Students with ongoing issues regarding this policy will be required to meet with the lab coordinator.
 - We recommend keeping your lab coat and a pair of closed-toe shoes in your car or backpack and set a reminder on your phone the night before your lab class.
- **No food or beverages are allowed in the lab.**
 - No water bottles, snacks, or food is allowed in the labs to avoid contamination and potential health risks.
- **If you have allergies, inform your instructor so appropriate precautions can be taken.**

Be Responsible

- **Horseplay is strictly prohibited.**

- Your TA will take off points if you are not working responsibly.
- Stay focused on the task at hand to ensure your safety and the safety of others.
- Always be mindful of your actions and the space around you.
- **Respect the lab equipment and the lab space.**
 - Each student is responsible for maintaining cleanliness in their lab area.
 - Report any damaged or malfunctioning equipment to the TA immediately.
 - Microscopes must be returned to their original positions before the end of each lab session.
 - No food or beverages are allowed in the lab.
- **There is no penalty for accidents, but blatant carelessness will not be tolerated.**
 - Adhere to the provided instructions and protocols. If unsure about any procedure, ask your TA for clarification.
- **Immediately report any accidents, injuries, or spills to the instructor, no matter how minor they may seem.**

At the start of the semester, your TA will conduct a lab safety briefing to review the rules and expectations for the lab.

At the beginning of the semester, you will sign a contract with your TA to confirm your understanding

of these rules. Please make sure to take the time to familiarize yourself with them. Be sure to ask your TA questions if anything safety related is unclear.

Course Evaluation Method

Your letter grade will be determined by a point system, where the total points you earn will correspond to your final grade. Please refer to the grading scale provided below for more details.

Graded Item	Total Possible Points
Lab Safety Quiz	10
Syllabus Quiz	10
In Class Participation 3 points for each lab x 12 labs total =	36
Skills Check 2 points for each lab x 12 labs total =	24
Quizzes (8 Total) 15 points each *Lowest quiz gets dropped*	105
Microscopy Interactive Lab via Pearson	15
Midterm Exam	100
Final Exam	100
Total Possible Points = 400	

Course Grading Scale

Earned Points	Grade	Letter Grade
400-358	100-90	A
357-346	89-87	A-

345-330	86-83	B+
329-318	82-80	B
317-306	79-77	B-
305-290	76-73	C+
289-278	72-70	C
277-266	69-67	C-
265-250	66-63	D+
249-238	62-60	D
237-226	59-57	D-
225-000	56-0	F

Grade Appeal Process

You may request a review of the final course grade when you believe that one of the following conditions apply:

- There was a computational or recording error in the grading.
- The grading process used non-academic criteria.
- There was a gross violation of the instructor's own grading system.

[University Regulation 4.002](#) of the University Regulations contains information on the grade appeals process

Course Topical Outline

A typical day in lab:

1. **First, you will sign in.** If you show up late to the lab, you will have to attend the make-up the lab.

2. **Then, your TA will make important announcements.** Be sure to pay attention because they will remind you about upcoming due dates and quizzes
3. **Next, your TA will lecture with a PowerPoint and potentially review old material.** If you don't understand something- ask!
4. **Then, you will start the lab activities.** Each lab has different activities such as observing microscope slides, using scientific models, labeling images, completing dissections and answering questions.
5. **Lastly, you will clean up the lab space.** All equipment and materials should be returned to their proper locations in the lab before you leave. If the lab space is not properly cleaned, then your TA will take off points.
6. **You must actively participate for the entire lab to earn participation points for that lab. If you leave early, you have earned a ZERO for that lab.**

This course schedule is subject to change

You will be notified via a Canvas announcement of any changes.

= Quizzes

Lab #	Week of	Topic	Announcements
1	Jan. 6	Introduction to the Lab / Syllabus Review Lab Safety	PPP + skills check Purchase lab materials. Last day to drop/add a class is Jan. 10
2	Jan. 13	Introduction to the Scientific Methods	PPP + skills check Syllabus quiz and lab safety quiz due on Jan. 19

3	Jan. 20	<p>No in-person lab</p> <p><i>Martin Luther King Jr. Day on Jan. 20</i></p> <p><u>Pearson Microscopy Interactive Lab</u></p> <p>An online assignment will be announced and should be completed by Jan. 26 to earn PPP and skills check points</p>	
4	Jan. 27	Functions and properties of cells	PPP + skills check Quiz 1
5	Feb. 3	Chemical Aspects (Macromolecules)	PPP + skills check Quiz 2
6	Feb. 10	Movement of molecules across cell membranes	PPP + skills check Quiz 3
7	Feb. 17	Enzymes / Midterm review	PPP + skills check Quiz 4
8	Feb. 24	MIDTERM WEEK	
9	Mar. 3	SPRING BREAK	
10	Mar. 10	Photosynthesis/ Cellular respiration	PPP + skills check
11	Mar.	Mitosis/Meiosis	PPP + skills check

	17		Quiz 5
12	Mar. 24	Connecting Meiosis and Human Genetics	PPP + skills check Quiz 6
13	Mar. 31	Introduction to Molecular Genetics	PPP + skills check Quiz 7
14	Apr. 7	Final Exam Review	PPP + skills check Quiz 8
15	Apr. 14	FINAL EXAM WEEK	

Time Commitment Per Credit Hour

For traditionally delivered courses, not less than one (1) hour of classroom or direct faculty instruction each week for fifteen (15) weeks per Fall or Spring semester, and a minimum of two (2) hours of out-of-class student work for each credit hour. Equivalent time and effort are required for Summer Semesters, which usually have a shortened timeframe. Fully Online courses, hybrid, shortened, intensive format courses, and other non-traditional modes of delivery will demonstrate equivalent time and effort.

Policy on the Recording of Lectures

Students enrolled in this course may record audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

Artificial Intelligence Preamble

FAU recognizes the value of generative AI in facilitating learning. However, output generated by artificial intelligence (AI), such as written words, computations, code, artwork, images, music, etc., for example, is drawn from previously published materials and is not your own original work.

FAU students are not permitted to use AI for any course work unless explicitly allowed to do so by the instructor of the class for a specific assignment. [\[Policy 12.16 Artificial Intelligence\]](#)

Class policies related to AI use are decided by the individual faculty. Some faculty may permit the use of AI in some assignments but not others, and some faculty may prohibit the use of AI in their course entirely. In the case that an instructor permits the use of AI for some assignments, the assignment instructions will indicate when and how the use of AI is permitted in that specific assignment. It is the student's responsibility to comply with the instructor's expectations for each assignment in each course. When AI is authorized, the student is also responsible and accountable for the content of the work. AI may generate inaccurate, false, or exaggerated information. Users should approach any generated content with skepticism and review any information generated by AI before using generated content as-is.

If you are unclear about whether or not the use of AI is permitted, ask your instructor before starting the assignment.

Failure to comply with the requirements related to the use of AI may constitute a violation of the [Florida Atlantic Code of Academic Integrity, Regulation 4.001.](#)

Proper Citation: If the use of AI is permitted for a specific assignment, then use of the AI tool must be properly documented and cited. For more information on how to properly cite the use of AI tools, visit <https://fau.edu/ai/citation>

AI Language Specific To This Course

AI Prohibited: The use of AI to assist in any work assigned in this specific course is prohibited.

Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual therapy, group therapy, and crisis services, to name a few - offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>

Student Support Services and Online Resources

- [Center for Learning and Student Success \(CLASS\)](#)
- [Counseling and Psychological Services \(CAPS\)](#)
- [FAU Libraries](#)
- [Math Learning Center](#)
- [Office of Information Technology Helpdesk](#)
- [Center for Global Engagement](#)
- [Office of Undergraduate Research and Inquiry \(OURI\)](#)
- [Science Learning Center](#)
- [Speaking Center](#)
- [Student Accessibility Services](#)
- [Student Athlete Success Center \(SASC\)](#)
- [Testing and Certification](#)
- [Test Preparation](#)
- [University Academic Advising Services](#)
- [University Center for Excellence in Writing \(UCEW\)](#)
- [Writing Across the Curriculum \(WAC\)](#)

Title IX Statement

In any case involving allegations of sexual misconduct, you are encouraged to report the matter to the University Title IX Coordinator in the Office of Civil Rights and Title IX (OCR9). If University faculty become aware of an allegation of sexual misconduct, they are expected to report it to OCR9. If a report is made, someone from OCR9 and/or Campus Victim Services will contact you to make you aware of available resources including support services, supportive measures, and the University's grievance procedures. More information, including contact information for OCR9, is available at <https://www.fau.edu/ocr9/title-ix/>. You may also contact Victim Services at victimservices@fau.edu or 561-297-0500 (ask to speak to an Advocate) or schedule an appointment with a counselor at Counseling and Psychological Services (CAPS) by calling 561-297-CAPS.



FLORIDA ATLANTIC UNIVERSITY

BSC 2085-001 11906

Anatomy and Physiology 1

Date: Monday, Wednesday 4:00 PM - 5:20 PM

Building: Liberal Arts Bldg Davie **Room:** 120

3 Credit(s)

Spring 2025 - 1 Full Term

Instructor Information

Vanessa Hormann

Email: vhormann@fau.edu

Office: Zoom Meetings

Office Hours: Monday and Wednesday from 1PM - 4PM. Please note you can email me at anytime with your questions, comments and concerns. Additional times/days are available to meet through zoom.

Course Description

Anatomy and Physiology 1

This course is the first part of a two-semester sequence in which students examine human anatomy and physiology through a systems approach based on the interaction between form and function, from the microscopic components of cells and tissues to the organismal level. Emphasis is placed on histology and the integumentary, skeletal, muscular and nervous systems. This is a General Education course.

Honors Anatomy and Physiology 1 (Honors College [HC] version)

Prerequisite or Corequisite: BSC 2085L with minimum grade of "C-"

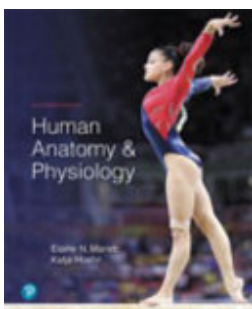
A study of structure and physiology from the cellular to the system levels in the human body, including integumentary, skeletal, muscular, nervous and endocrine systems.

Instructional Method

In-Person

Traditional concept of in person. Mandatory attendance is at the discretion of the instructor.

Required Texts/Materials



Human Anatomy & Physiology

ISBN: 9780134580999

Authors: Elaine N. Marieb, Katja N. Hoehn

Publisher: Pearson

Publication Date: 2018-01-01

Edition: Access to Mastering is required for this course

MasteringA&P MyLab/Mastering New Design (MMND) for Modified Mastering A&P with Pearson eText -- Instant Access -- for Human Anatomy & Physiology, 11/for Florida Atlantic University -- Standalone Access Card

ISBN: 9781323906903

Publisher: Pearson

Course Objectives/Student Learning Outcomes

Course objectives/student learning outcomes

Upon completion of this course, you should demonstrate the following:

- A comprehensive understanding of the organization of the human body with detailed analysis of several organ systems.
- Increased ability to critically evaluate data and experimental designs.
- Obtain direct experience in observations of physiological phenomena.
- Recognition of the importance of accurate observations and data collection.
- Gain experience in the oral and written presentation of scientific data in a professional manner.

Faculty Rights and Responsibilities

Florida Atlantic University respects the rights of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede their exercise. To ensure these rights, faculty members have the prerogative to:

- Establish and implement academic standards.
- Establish and enforce reasonable behavior standards in each class.
- Recommend disciplinary action for students whose behavior may be judged as disruptive under the Student Code of Conduct [University Regulation 4.007](#).

Disability Policy

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.

Course Evaluation Method

Course Evaluation and Grading Policy:

- **Four Chapter Exams of 100 points each (400 points total)**
 - The exams will reflect the chapters covered in class, whether the material was thoroughly discussed or not. There will be some questions based on materials from the textbook which has not been covered in class.
 - The unit exams will consist of a maximum of 60 questions, which may be a mix of multiple choice, T/F and short answer questions
 - Students are expected to bring a Scantron form (882) for the test as well as a Number 2 pencil and an eraser.
 - The exams will be handed out promptly at the start of class, students who are more than 10 minutes late will NOT be permitted to take the exam and will receive a score of 0 (unless proper documentation is provided beforehand and approved by the instructor).
 - Exam 4 will be taken online through the Mastering A&P system, please refer to the class schedule for the due date. Students will have 90 minutes and 1 attempt to complete the exam. Feel free to use your text, and any additional notes or resources during the online exam.

- Students who miss an exam will need to provide documentation of an excused absence within the listed time periods below. After that, no makeups will be considered, and the student will earn an exam grade of 0. If there is no documentation, no makeup will be granted.
 - Plan accordingly! The exam dates will not be altered due to work, travel, social or other events.
 - If an illness/accident arises, official documentation such as a doctor's note or hospital form need to be provided within 48 hours of the exam date. In the case of hospitalization on the day of the assessment, students will have a 48 hour extension to provided paperwork.
 - In case the student has to observe a holy day, attend jury duty or observe the death of a close family member, the instructor should be notified no later than the due date of the assessment. Official documentation is required.
 - The instructor reserves the right to make a different exam as a make-up.
 - If a make-up exam is granted, students will have 24 hours to complete it at the testing center. It is the student's responsibility to schedule the make-up exam.
 - Only one makeup will be granted, all other missed exams will result in a score of 0

- **Eight Chapter Assignments of 10 points each (80 points total)**
 - Chapter assignments have been created for select chapters of the BSC 2085 course and can be found under the assignment tab or linked in the selected chapter modules.
 - The assignments will be completed through Mastering and will contain a variety of question types such as labeling, fill in the blank and multiple choice.
 - Students will have 1 opportunity with 2 attempts to answer each question. A time limit of 60 minutes has been set. The highest score earned will be recorded.
 - The chapter assignments will not be reset. It is the student's responsibility to use a reliable internet source to complete the questions, a lot of which utilize video clips. Computers and internet access is available in the FAU library.
 - No late assessments will be accepted, and a score of 0 will be reported.
 - Plan accordingly! The assignment dates will not be altered due to work, travel, social or other events.
 - If an illness/accident arises, official documentation such as a doctor's note or hospital form need to be provided to the professor no later than the due date. In the case of hospitalization on the day of the assessment, students will have a 48-hour extension to provided paperwork.

- In case the student has to observe a holy day, attend jury duty or observe the death of a close family member, the instructor should be notified no later than the due date of the assessment. Official documentation is required.
 - The instructor reserves the right to make a different worksheet as a make-up. If a make-up is granted, students will have 24 hours to complete it.
 - Please reference the class schedule for exact due dates.
 - Late assignments will not be accepted, NO EXCEPTIONS.
- **Four Chapter Worksheets of 20 points each (80 points total)**
- Worksheets will be compiled for Chapters 2, 8 and 15 and combination of Chapters 11 - 14. These worksheets will be posted on the Mastering site.
 - There is no scheduled face to face or recorded lecture for these chapters. Instead, a comprehensive chapter outline has been posted on Canvas. Please do not hesitate to contact the professor with any content related questions or for additional resources. Students are encouraged to read the book and the outline before starting the worksheets.
 - Students will have 1 opportunity to complete the worksheet and 2 attempts to answer each question within the worksheet, with a 90 minute time limit. Feel free to use your book, notes and any additional resources to complete the assessments.
 - Reference the posted lecture schedule for the availability and due dates of the worksheets.
 - Chapter 2 WS will be available from Mon. 01/06 (12:01am) – Mon. 02/10 (11:59pm)
 - Chapter 8 WS will be available from Mon. 01/06 (12:01am) – Mon. 03/17 (11:59pm)
 - Chapter 15 WS will be available from Mon. 01/06 (12:01am) - Mon. 04/14 (11:59pm)
 - Chapters 11 - 14 WS will be available from Mon. 01/06 (12:01am) - Mon. 04/21 (11:59pm)
 - Worksheets will not be reset. It is the student's responsibility to use a reliable internet source to complete the questions, a lot of which utilize video clips.
 - No late assessments will be accepted, and a score of 0 will be reported.
 - Plan accordingly! The worksheet dates will not be altered due to work, travel, social or other events.
 - If an illness/accident arises, official documentation such as a doctor's note or hospital form need to be provided to the professor no later than the due date. In the case of hospitalization on the day of the assessment, students will have a 48 hour extension to provided paperwork.

- In case the student has to observe a holy day, attend jury duty or observe the death of a close family member, the instructor should be notified no later than the due date of the assessment. Official documentation is required.
- The instructor reserves the right to make a different worksheet as a make-up. If a make-up is granted, students will have 24 hours to complete it.
- Computers and internet access is available in the FAU computer lab and BC library. Internet issues will not warrant an extension or reset of the assessments.
- Any technical issues should be reported to Pearson's 24/7 tech support.
- Worksheet scores and detailed question/answer explanations will be available after the posted due dates.
- Late assignments will not be accepted, NO EXCEPTIONS.

• **Ten In - Class Engagement Activities of 10 points each (100 points total)**

- Ten in-class engagement activities of 10 points each, completed during our scheduled class time,
- Please refer to the class schedule below for the exact assessment availability and chapter content.
- The activities will vary in format and may be done in an individual or group setting. Activities can vary in format from quiz questions to think-pair and share assessments, worksheets or discussion participation. Complete instructions will be given by the instructor during class time.
- Students should prepare by listening to the recorded lecture, reading the chapter assignment and engaging during the class session.
- The instructor will determine the start time of the activity, it can be at any time during the lecture time slot.
- If a student is late or leaves before/during the activity, they will not be able to partake in the activity and a score of 0 will be assigned.
- There is no makeup for the in-class activity, regardless of if the student has an excused or unexcused absence. These assessments are based on student engagement and participation and cannot be made-up when missed. No exceptions.

• **Weekly Reading/Homework Assignments**

- Students will need to read the chapters discussed in lecture ahead of time.
- Please reference the class schedule below for the weekly homework assignments.

Total Grade Points Breakdown:

Assessment Types and Quantities:	Points:
4 Exams (100 points each)	400
8 Chapter Assignments (10 points each)	80
4 Chapter Worksheets (20 points each)	80
10 In-Class Engagement Activities (10 points each)	100
TOTAL POINTS:	660

Grading Scale out of a total of 660 points:

NO AUDITS OR WITHDRAWS WILL BE GIVEN AT THE END OF THE SEMESTER

Grade:	Percentage:	Grade:	Percentage:	Grade:	Percentage:
A	94 - 100%	B-	80 - 82%	D+	67 - 69%
A-	90 - 93%	C+	77 - 79%	D	63 - 66%
B+	87 - 89%	C	73 - 76%	D-	60 - 62%
B	83 - 86%	C-	70 - 72%	F	0 - 59%

- Make-up exams will only be available under EXTREMELY special circumstances and in case a student has to miss an exam due to an emergency. Please reference the exam section for all specific details. The instructor reserves the right to make a different exam as a make-up. Official documentation is required.
- Religious Accommodations: Students who wish to be excused from coursework, class activities or examinations must notify the instructor in advance of their intention to participate in religious observation and request an excused absence.
- If a make-up exam is granted, students will have 48 hours to complete it. Students will have to call the Davie Testing Center (954-236-1220 or 954-236-1532) to schedule an appointment within the 48 hour window and confirm with the instructor the day and time of the make-up test.
- EXAMS CANNOT BE RETAKEN

- A student that comes in late to an exam CANNOT take the test (and will result in a score of “0”) if someone has already finished the exam and left the room.
- Once you hand in your exam and you leave the room you cannot come back and ask to complete unfinished parts. It is the student’s responsibility to check throughout the exams before it is handed in.
- Make sure you go to the restroom before the exam. You cannot leave the room while taking the exam.
- Extra credit opportunities will be up to the instructor’s discretion. Only students in attendance will be able to complete and receive extra credit. No make-up is offered for missed extra credit regardless of reason of absence.
- Exams and/ or final grades ARE NOT CURVED. What you earn in this course is what is going to be recorded.

Code of Academic Integrity

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

Course Attendance and Policies:

- You are encouraged to attend class every session. Some topics may be covered in more depth or be emphasized more than the textbook coverage. A student that comes to class ready to learn has a higher success chance than a student that does not show up. Obtaining notes from your classmates does not provide the same information as actually attending class. Tardiness is not tolerated in my class; it disrupts the learning environment.
- The student is responsible to make up the material in case he/she misses the lecture. Make sure you know someone in class in case you have to miss a lecture. You should not ask the instructor if you missed something important when you did not attend the lecture. Everything discussed in class is considered important and could potentially be on the test.
- All lecture notes have been downloaded on Canvas <https://canvas.fau.edu/>
- In addition, grades, assessments, discussion topics and announcements will be posted on this site.
- The last day to withdraw through the registrar’s office is March 21st, 2025. It is the student’s responsibility to withdraw; the instructor will NOT withdraw any students after the due date. No

audits or incompletes are offered.

- Silence your cell phones, and do NOT text during the lecture. THIS RULE IS ENFORCED. POINTS WILL BE DEDUCTED FROM YOUR GRADE IF YOU ARE CAUGHT USING YOUR PHONE.
- Courtesy is expected; please refrain from talking while the instructor is lecturing. However, students are encouraged to ask questions and participate in class (please raise your hand).
- No misconduct behavior is tolerated in my class. Some examples are: arriving late to class, talking to classmates during the lecture, texting during the lecture, being disrespectful to classmates/instructor etc.
- Classroom etiquette policy regarding electronic devices: University policy on the use of electronic devices states: "In order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular telephones and pagers, are to be disabled in class sessions."
- Attendance Policy Statement: Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.
- Disability policy statement: In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.
- Counseling and Psychological Services (CAPS) Center: Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>

- Code of Academic Integrity policy statement: Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high-quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see University Regulation 4.001. If your college has particular policies relating to cheating and plagiarism, state so here or provide a link to the full policy—but be sure the college policy does not conflict with the University Regulation. Cheating is a serious offense. If you are caught cheating, you will receive an F in the course and be referred to the Dean of Biological Sciences and Student Services and charged with an academic crime.

Attendance Policy Statement

Students are expected to attend all their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations, or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances, and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

Religious Accommodation Policy Statement

In accordance with the rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices and beliefs regarding admissions, registration, class attendance, and the scheduling of examinations and work assignments. University Regulation 2.007, Religious Observances, sets forth this policy for FAU and may be accessed on the FAU website at www.fau.edu/regulations.

Any student who feels aggrieved regarding religious accommodations may present a grievance to the executive director of The Office of Civil Rights and Title IX. Any such grievances will follow Florida Atlantic University's established grievance procedure regarding alleged discrimination.

Time Commitment Per Credit Hour

For traditionally delivered courses, not less than one (1) hour of classroom or direct faculty instruction each week for fifteen (15) weeks per Fall or Spring semester, and a minimum of two (2) hours of out-of-class student work for each credit hour. Equivalent time and effort are required for Summer Semesters, which usually have a shortened timeframe. Fully Online courses, hybrid, shortened, intensive format courses, and other non-traditional modes of delivery will demonstrate equivalent time and effort.

Course Grading Scale

Letter Grade	Letter Grade
A	94 - 100%
A-	90 - 93%
B+	87 - 89%
B	83 - 86%
B-	80 - 82%
C+	77 - 79%
C	73 - 76%
C-	70 - 72%
D+	67 - 69%
D	63 - 66%
D-	60 - 62%
F	Below 60

Grade Appeal Process

You may request a review of the final course grade when you believe that one of the following conditions apply:

- There was a computational or recording error in the grading.
- The grading process used non-academic criteria.
- There was a gross violation of the instructor's own grading system.

[University Regulation 4.002](#) of the University Regulations contains information on the grade appeals process

Policy on Make-up Tests, Late work, and Incompletes

- Make-up exams will only be available under EXTREMELY special circumstances and in case a student has to miss an exam due to an emergency. Please reference the exam section for all specific details. The instructor reserves the right to make a different exam as a make-up. Official documentation is required.
- Religious Accommodations: Students who wish to be excused from coursework, class activities or examinations must notify the instructor in advance of their intention to participate in religious observation and request an excused absence.
- If a make-up exam is granted, students will have 48 hours to complete it. Students will have to call the Davie Testing Center (954-236-1220 or 954-236-1532) to schedule an appointment within the 48 hour window and confirm with the instructor the day and time of the make-up test.
- EXAMS CANNOT BE RETAKEN
- A student that comes in late to an exam CANNOT take the test (and will result in a score of "0") if someone has already finished the exam and left the room.
- Once you hand in your exam and you leave the room you cannot come back and ask to complete unfinished parts. It is the student's responsibility to check throughout the exams before it is handed in.
- Make sure you go to the restroom before the exam. You cannot leave the room while taking the exam.
- Extra credit opportunities will be up to the instructor's discretion. Only students in attendance will be able to complete and receive extra credit. No make-up is offered for missed extra credit regardless of reason of absence.
- Exams and/ or final grades ARE NOT CURVED. What you earn in this course is what is going to be recorded.

Policy on the Recording of Lectures

Students enrolled in this course may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these

requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

AI Language Specific To This Course

AI Prohibited: The use of AI to assist in any work assigned in this specific course is prohibited.

Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual therapy, group therapy, and crisis services, to name a few - offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>

Student Support Services and Online Resources

- [Center for Learning and Student Success \(CLASS\)](#)
- [Counseling and Psychological Services \(CAPS\)](#)
- [FAU Libraries](#)
- [Math Learning Center](#)
- [Office of Information Technology Helpdesk](#)
- [Center for Global Engagement](#)
- [Office of Undergraduate Research and Inquiry \(OURI\)](#)
- [Science Learning Center](#)
- [Speaking Center](#)
- [Student Accessibility Services](#)
- [Student Athlete Success Center \(SASC\)](#)
- [Testing and Certification](#)
- [Test Preparation](#)
- [University Academic Advising Services](#)
- [University Center for Excellence in Writing \(UCEW\)](#)
- [Writing Across the Curriculum \(WAC\)](#)

Artificial Intelligence Preamble

FAU recognizes the value of generative AI in facilitating learning. However, output generated by artificial intelligence (AI), such as written words, computations, code, artwork, images, music, etc., for example, is drawn from previously published materials and is not your own original work.

FAU students are not permitted to use AI for any course work unless explicitly allowed to do so by the instructor of the class for a specific assignment. [\[Policy 12.16 Artificial Intelligence\]](#)

Class policies related to AI use are decided by the individual faculty. Some faculty may permit the use of AI in some assignments but not others, and some faculty may prohibit the use of AI in their course entirely. In the case that an instructor permits the use of AI for some assignments, the assignment instructions will indicate when and how the use of AI is permitted in that specific assignment. It is the student's responsibility to comply with the instructor's expectations for each assignment in each course. When AI is authorized, the student is also responsible and accountable for the content of the work. AI may generate inaccurate, false, or exaggerated information. Users should approach any generated content with skepticism and review any information generated by AI before using generated content as-is.

If you are unclear about whether or not the use of AI is permitted, ask your instructor before starting the assignment.

Failure to comply with the requirements related to the use of AI may constitute a violation of the [Florida Atlantic Code of Academic Integrity, Regulation 4.001.](#)

Proper Citation: If the use of AI is permitted for a specific assignment, then use of the AI tool must be properly documented and cited. For more information on how to properly cite the use of AI tools, visit <https://fau.edu/ai/citation>

Course Topical Outline

TENTATIVE LECTURE AND EXAM SCHEDULE: BSC 2085 Spring 2025 Session 1

Each week you will be responsible for reading the course notes and submitting assignments. Please keep a close eye on the class schedule below and all the listed due dates. Late assessments will not be accepted! If you have any questions, comments, concerns; do not hesitate to email me! The instructor reserves the right to change the schedule, adequate notice will be provided to the students in case of due date changes.

Please note our lecture is designed as a blended in-person and online modality, where students have online days dedicated to listening to recorded lectures and preparing course content. Online dates have been noted in the schedule, on those dates, students do not have to attend class in-person but are expected to complete the listed course content.

Any questions, comments, concerns? Do not hesitate to email your professor.

*** The instructor reserves the right to change the schedule and exam dates.

Day:	Date:	Course Content:
M	01/06	<p>In- Person Meeting:</p> <ul style="list-style-type: none"> • Intro to Course/ Syllabus: Lecture Syllabus and Schedule: Spring 2025 • Course Orientation • Pearson Mastering Introduction: Pearson: Access to eBook and Mastering Online Assessments • Q&A Session
W	01/08 ONLINE	<p>Prepare for Chapter 1 The Human Body</p> <ul style="list-style-type: none"> • Reference chapter content: Chapter 1 The Human Body <ul style="list-style-type: none"> ◦ eBook Reading ◦ Powerpoint and Recorded Lecture • Online Assessments (due 02/10 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 1
M	01/13	<p>In - Person Meeting:</p> <ul style="list-style-type: none"> • Overview of Chapter 1 The Human Body • Class Engagement Assignment #1 • Online Assessment (due 02/10 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 1
W	01/15 ONLINE	<p>Prepare for Chapter 3 Cells</p> <ul style="list-style-type: none"> • Reference chapter content: Chapter 3 Cells <ul style="list-style-type: none"> ◦ eBook Reading ◦ Powerpoint and Recorded Lecture • Online Assessments (due 09/16 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 3
M	01/20	FAU Closed: MLK Day
W	01/22	<p>In - Person Meeting:</p> <ul style="list-style-type: none"> • Overview of Chapter 3 Cells

		<ul style="list-style-type: none"> • Class Engagement Assignment #2 • Online Assessment (due 02/10 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 3 <p>Start work on Online Chapter: (Online Worksheet) Chapter 2 Chemistry Comes Alive</p> <ul style="list-style-type: none"> • Chapter Reading and Outline: (Online Worksheet) Chapter 2 Chemistry Comes Alive • Chapter Worksheet (due 02/10 @11:59PM): Worksheet: Chapter 2
M	01/27	<p>In - Person Meeting:</p> <ul style="list-style-type: none"> • Finalize Chapter 3 Cells • Class Engagement Assignment #3 • Online Assessment (due 02/10 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 3 <p>Continue work on Online Chapter: (Online Worksheet) Chapter 2 Chemistry Comes Alive</p> <ul style="list-style-type: none"> • Chapter Reading and Outline: (Online Worksheet) Chapter 2 Chemistry Comes Alive • Chapter Worksheet (due 02/10 @11:59PM): Worksheet: Chapter 2
W	01/29 ONLINE	<p>Prepare for Chapter 4 Tissues</p> <ul style="list-style-type: none"> • Reference chapter content: Chapter 4 Tissues <ul style="list-style-type: none"> ◦ eBook Reading ◦ Powerpoint and Recorded Lecture • Online Assessments (due 02/10 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 4 <p>Continue work on Online Chapter: (Online Worksheet) Chapter 2 Chemistry Comes Alive</p> <ul style="list-style-type: none"> • Chapter Reading and Outline: (Online Worksheet) Chapter 2 Chemistry Comes Alive • Chapter Worksheet (due 02/10 @11:59PM): Worksheet: Chapter 2
M	02/03	<p>In - Person Meeting:</p>

		<ul style="list-style-type: none"> • Overview of Chapter 4 Tissues • Class Engagement Assignment #4 • Online Assessment (due 02/10 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 4 <p>Continue work on Online Chapter: (Online Worksheet) Chapter 2 Chemistry Comes Alive</p> <ul style="list-style-type: none"> • Chapter Reading and Outline: (Online Worksheet) Chapter 2 Chemistry Comes Alive • Chapter Worksheet (due 02/10 @11:59PM): Worksheet: Chapter 2
W	02/05 ONLINE	<ul style="list-style-type: none"> • Review Chapters 1, 3 and 4 • Prepare for Exam #1: Exam #1 Topic Outline and Breakdown • Online Assessments (due 02/10 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 1 ◦ Chapter Assignment: Chapter 3 ◦ Chapter Assignment: Chapter 4 ◦ Worksheet: Chapter 2
M	02/10	<p>In - Person Meeting:</p> <p>Exam 1 (Chapters 1, 3 and 4) - Scantron and Pencil Required</p> <p>Online Assignments Due @ 11:59PM:</p> <ul style="list-style-type: none"> • Chapter Assignment: Chapter 1 • Chapter Assignment: Chapter 3 • Chapter Assignment: Chapter 4 • Worksheet: Chapter 2
W	02/12 ONLINE	<p>Prepare for Chapter 5 Integumentary System</p> <ul style="list-style-type: none"> • Reference chapter content: Chapter 5 Integumentary System <ul style="list-style-type: none"> ◦ eBook Reading ◦ Powerpoint and Recorded Lecture • Online Assessments (due 03/17 @11:59PM):

		<ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 5
M	02/17	<p>In - Person Meeting:</p> <ul style="list-style-type: none"> • Overview of Chapter 5 Integumentary System • Class Engagement Assignment #5 • Online Assessment (due 03/17 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 5
W	02/19 ONLINE	<p>Prepare for Chapter 6 Bone and Skeletal Tissue</p> <ul style="list-style-type: none"> • Reference chapter content: Chapter 6 Bone and Skeletal Tissue <ul style="list-style-type: none"> ◦ eBook Reading ◦ Powerpoint and Recorded Lecture • Online Assessments (due 03/17 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 6
M	02/24	<p>In - Person Meeting:</p> <ul style="list-style-type: none"> • Overview of Chapter 6 Bone and Skeletal Tissue • Class Engagement Assignment #6 • Online Assessment (due 03/17 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 6 <p>Start work on Online Chapter: (Online Worksheet) Chapter 8 Joints</p> <ul style="list-style-type: none"> • Chapter Reading and Outline: (Online Worksheet) Chapter 8 Joints • Chapter Worksheet (due 03/17 @11:59PM): Worksheet: Chapter 8
W	02/26 ONLINE	<p>Prepare for Chapter 7 The Skeleton</p> <ul style="list-style-type: none"> • Reference chapter content: Chapter 7 The Skeleton <ul style="list-style-type: none"> ◦ eBook Reading ◦ Powerpoint and Recorded Lecture • Online Assessments (due 03/17 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 7 <p>Continue work on Online Chapter: (Online Worksheet) Chapter 8 Joints</p> <ul style="list-style-type: none"> • Chapter Reading and Outline: (Online Worksheet) Chapter 8 Joints

		<ul style="list-style-type: none"> Chapter Worksheet (due 03/17 @11:59PM): Worksheet: Chapter 8
M	03/03	FAU Closed: Spring Break
W	03/05	FAU Closed: Spring Break
M	03/10	<p>In - Person Meeting:</p> <ul style="list-style-type: none"> Overview of Chapter 7 The Skeleton Class Engagement Assignment #7 Online Assessments (due 03/17 @11:59PM): <ul style="list-style-type: none"> Chapter Assignment: Chapter 7 <p>Continue work on Online Chapter: (Online Worksheet) Chapter 8 Joints</p> <ul style="list-style-type: none"> Chapter Reading and Outline: (Online Worksheet) Chapter 8 Joints Chapter Worksheet (due 03/17 @11:59PM): Worksheet: Chapter 8
W	03/12 ONLINE	<ul style="list-style-type: none"> Review Chapters 5, 6 and 7 Prepare for Exam #2: Exam #2 Topic Outline and Breakdown Online Assessments (due 03/17 @11:59PM): <ul style="list-style-type: none"> Chapter Assignment: Chapter 5 Chapter Assignment: Chapter 6 Chapter Assignment: Chapter 7 Worksheet: Chapter 8
M	03/17	<p>In - Person Meeting:</p> <p>Exam 2 (Chapters 18, 20 and 21) - Scantron and Pencil Required</p> <p>Online Assignments Due @ 11:59PM:</p> <ul style="list-style-type: none"> Chapter Assignment: Chapter 5 Chapter Assignment: Chapter 6 Chapter Assignment: Chapter 7 Worksheet: Chapter 8
W	03/19 ONLINE	<p>Prepare for Chapter 9 Muscle and Muscle Tissue</p> <ul style="list-style-type: none"> Reference chapter content: Chapter 9 Muscle and Muscle Tissue

		<ul style="list-style-type: none"> ◦ eBook Reading ◦ Powerpoint and Recorded Lecture • Online Assessments (due 04/14 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 9
M	03/24	<p>In - Person Meeting:</p> <ul style="list-style-type: none"> • Overview of Chapter 9 Muscle and Muscle Tissue • Class Engagement Assignment #8 • Online Assessments (due 04/14 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 9
W	03/26 ONLINE	<p>Continue working on Chapter 9 Muscle and Muscle Tissue</p> <ul style="list-style-type: none"> • Reference chapter content: Chapter 9 Muscle and Muscle Tissue <ul style="list-style-type: none"> ◦ eBook Reading ◦ Powerpoint and Recorded Lecture • Online Assessments (due 04/14 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 9 <p>Start work on Online Chapter: (Online Worksheet) Chapter 15 Special Senses</p> <ul style="list-style-type: none"> • Chapter Reading and Outline: (Online Worksheet) Chapter 15 Special Senses • Chapter Worksheet (due 04/14 @11:59PM): Worksheet: Chapter 15
M	03/31	<p>In - Person Meeting:</p> <ul style="list-style-type: none"> • Finalize Chapter 9 Muscle and Muscle Tissue • Class Engagement Assignment #9 • Online Assessments (due 04/14 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 9 <p>Continue work on Online Chapter: (Online Worksheet) Chapter 15 Special Senses</p>

		<ul style="list-style-type: none"> • Chapter Reading and Outline: (Online Worksheet) Chapter 15 Special Senses • Chapter Worksheet (due 04/14 @11:59PM): Worksheet: Chapter 15
W	04/02 ONLINE	<p>Prepare for Chapter 10 The Muscular System</p> <ul style="list-style-type: none"> • Reference chapter content: Chapter 10 The Muscular System <ul style="list-style-type: none"> ◦ eBook Reading ◦ Powerpoint and Recorded Lecture • Online Assessments (due 04/14 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 10 <p>Continue work on Online Chapter: (Online Worksheet) Chapter 15 Special Senses</p> <ul style="list-style-type: none"> • Chapter Reading and Outline: (Online Worksheet) Chapter 15 Special Senses • Chapter Worksheet (due 04/14 @11:59PM): Worksheet: Chapter 15
M	04/07	<p>In - Person Meeting:</p> <ul style="list-style-type: none"> • Overview of Chapter 10 The Muscular System • Class Engagement Assignment #10 • Online Assessments (due 04/14 @11:59PM): <ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 10 <p>Continue work on Online Chapter: (Online Worksheet) Chapter 15 Special Senses</p> <ul style="list-style-type: none"> • Chapter Reading and Outline: (Online Worksheet) Chapter 15 Special Senses • Chapter Worksheet (due 04/14 @11:59PM): Worksheet: Chapter 15
W	04/09 ONLINE	<ul style="list-style-type: none"> • Review Chapters 9 and 10 • Prepare for Exam #3: Exam #3 Topic Outline and Breakdown • Online Assessments (due 04/14 @11:59PM):

		<ul style="list-style-type: none"> ◦ Chapter Assignment: Chapter 9 ◦ Chapter Assignment: Chapter 10 ◦ Worksheet: Chapter 15
M	04/14	<p>In - Person Meeting:</p> <p>Exam 3 (Chapters 22 and 23) - Scantron and Pencil Required</p> <p>Online Assignments Due @ 11:59PM:</p> <ul style="list-style-type: none"> • Chapter Assignment: Chapter 9 • Chapter Assignment: Chapter 10 • Worksheet: Chapter 15
W	04/16 ONLINE	<p>Start work on Online Chapters: Chapters 11 - 14 Nervous System (Online Worksheet and Exam Content)</p> <ul style="list-style-type: none"> • Chapter Reading and Outline: Chapters 11 - 14 Nervous System (Online Worksheet and Exam Content) • Online Worksheet and Exam (due 04/21 @11:59PM): <ul style="list-style-type: none"> ◦ Worksheet: Chapters 11- 14 ◦ Exam 4: Chapters 11, 12, 13 and 14
M	04/21 ONLINE	<p>Online Worksheet and Exam Due @11:59PM:</p> <ul style="list-style-type: none"> • Worksheet: Chapters 11- 14 • Exam 4: Chapters 11, 12, 13 and 14 <p>COURSE COMPLETION! CONGRATS YOU MADE IT TO THE END!</p>
	04/23	No Class: Reading Day

Title IX Statement

In any case involving allegations of sexual misconduct, you are encouraged to report the matter to the University Title IX Coordinator in the Office of Civil Rights and Title IX (OCR9). If University faculty become aware of an allegation of sexual misconduct, they are expected to report it to OCR9. If a report is made, someone from OCR9 and/or Campus Victim Services will contact you to make you aware of available resources including support services, supportive measures, and the University's grievance procedures. More information, including contact information for OCR9, is available at

<https://www.fau.edu/ocr9/title-ix/>. You may also contact Victim Services at victimservices@fau.edu or 561-297-0500 (ask to speak to an Advocate) or schedule an appointment with a counselor at Counseling and Psychological Services (CAPS) by calling 561-297-CAPS.



FLORIDA ATLANTIC UNIVERSITY

BSC 2085L-001 11907

Anatomy & Physiology 1 Lab

Date: Tuesday 3:00 PM - 4:50 PM

Building: J A Scott Education Sci Davie **Room:** 315

1 Credit(s)

Spring 2025 - 1 Full Term

Instructor Information

Lauren Dawson-Scully

Email: ldawsonscull2021@fau.edu

Cristina De La Rosa

Email: cdelarosa@fau.edu

Instructor of Record: Cristina de la Rosa

Office: ES 303, Davie

Office Hours: by appointment

Phone: (954) 236- 1110

TA Name: Lauren Dawson-Scully

Office: ES 310, Davie

Office Hours: Tuesdays 1:00 -2:00 pm at ES 310, Davie and Wednesdays 11:00 am-12:00 pm at SLC, Boca

Telephone: N/A

Email: ldawsonscull2021@fau.edu

Course Description

Anatomy and Physiology 1 Lab

Laboratory investigations to augment the content of BSC 2085. This is a General Education course.

Honors Anatomy and Physiology 1 Lab (Honors College [HC] version)

Prerequisite or Corequisite: BSC 2085 with minimum grade of "C-"

Laboratory investigations to augment the content of BSC 2085.

Laboratory investigations to augment the content of BSC 2085: study of structure and physiology from the cellular to the system levels in the human body, including integumentary, skeletal, muscular, nervous systems, and the senses. This is a General Education course.

Credit Hour Commitment for Course: In order to master the material, it is expected that students will spend a minimum of four hours per week per credit hour on out of classroom assignments and reading. That is at least four hours a week.

Instructional Method

In-Person

Traditional concept of in person. Mandatory attendance is at the discretion of the instructor.

Required Texts/Materials

Lab Coat

Students are required to wear closed toe shoes

Dissection kit

Human Anatomy & Physiology Lab Manual (w/ModMastering Access Card)

ISBN: 9780135782118

Publisher: Pearson

Edition: 2nd

Course Objectives/Student Learning Outcomes

This practical laboratory class is designed to teach basic human anatomy and physiological function of the tissues of the body (histology), the integumentary system, the skeletal system, the muscular system, the central and peripheral nervous system, and various sensory organs. By the end of this course, students become proficient in the use of a microscope to view and identify histological, microscopic structures of various tissues and the identification of anatomical structures in diagrams, on scientific models, and within dissected animal organs. This class lays the foundation in anatomy and physiology for a variety of pre-professional students.

Faculty Rights and Responsibilities

Florida Atlantic University respects the rights of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede their exercise. To ensure these rights, faculty members have the prerogative to:

- Establish and implement academic standards.
- Establish and enforce reasonable behavior standards in each class.
- Recommend disciplinary action for students whose behavior may be judged as disruptive under the Student Code of Conduct [University Regulation 4.007](#).

Disability Policy

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.

Course Evaluation Method

25% Midterm Practical Exam 100 points

25% Final Practical Exam 100 points

25% 12 Quizzes (10 pts each, 2 lowest scores dropped) 100 points

10% Pre-lab assignments (4 pts each, 2 lowest scores dropped) 40 points

10% Weekly lab skill check (4 pts each, 2 lowest scores dropped) 40 points

5% Participation and Attendance (2 lowest scores dropped) 20 points

100% = 400 points

Code of Academic Integrity

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which

is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

Attendance Policy Statement

Students are expected to attend all their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations, or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances, and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

This is an in-person laboratory course. Attendance is mandatory. It is expected that students remain active in the lab for the duration of the session (almost 2 hours). If a student has more than 2 unexcused absences, the student will automatically fail the course.

Students who unexpectedly miss a lab session for a valid reason are required to inform the TA about the reason for the absence and provide documentation as soon as possible after a missed lab but no later than the next day. Students may not be able to make up the lab exercises.

Religious Accommodation Policy Statement

In accordance with the rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices and beliefs regarding admissions, registration, class attendance, and the scheduling of examinations and work assignments. University Regulation 2.007, Religious Observances, sets forth this policy for FAU and may be accessed on the FAU website at www.fau.edu/regulations.

Any student who feels aggrieved regarding religious accommodations may present a grievance to the executive director of The Office of Civil Rights and Title IX. Any such grievances will follow Florida Atlantic University's established grievance procedure regarding alleged discrimination.

Time Commitment Per Credit Hour

For traditionally delivered courses, not less than one (1) hour of classroom or direct faculty instruction each week for fifteen (15) weeks per Fall or Spring semester, and a minimum of two (2) hours of out-of-class student work for each credit hour. Equivalent time and effort are required for Summer Semesters, which usually have a shortened timeframe. Fully Online courses, hybrid, shortened, intensive format courses, and other non-traditional modes of delivery will demonstrate equivalent time and effort.

Course Grading Scale

Letter Grade	Letter Grade
A	93 - 100%
A-	90 - 92.5%
B+	87 - 89.5%
B	83 - 86.5%
B-	80 - 82.5%
C+	77 - 79.5%
C	73 - 76.5%
C-	70 - 72.3%
D+	67 - 69.5%
D	63 - 66.5%
D-	60 - 62.5%
F	Below 60

Grade Appeal Process

You may request a review of the final course grade when you believe that one of the following conditions apply:

- There was a computational or recording error in the grading.
- The grading process used non-academic criteria.
- There was a gross violation of the instructor's own grading system.

[University Regulation 4.002](#) of the University Regulations contains information on the grade appeals process

Policy on Make-up Tests, Late work, and Incompletes

The make-up policy applies only to students with excused absences as defined by the FAU Academic Policies and Regulations. A student who has an excusable prior commitment which cannot be moved or altered and force the student to miss a lab session, must inform the TA in writing via email at least one lab session in advance to make arrangements to either attend another lab session or make-up the work at another time or in another way. Students may not switch lab periods to make up excused absences without prior arrangement. Lab sections may be filled to capacity, and adding additional students is prohibited by the fire code. Because of this, TAs are not required to accept extra students who appear unannounced to their lab section.

Students who unexpectedly miss a lab session for a valid reason are required to inform the TA about the reason for the absence and provide documentation as soon as possible after a missed lab but no later than the next day. Students may not be able to make up the lab exercises.

Students are responsible for material covered in missed labs, regardless of whether the absence was excused or unexcused. No makeup quizzes will be given and no late assignments will be accepted without a valid reason as defined by the policy above.

Also, note that grades of Incomplete ("I") are reserved for students who are passing a course but have not completed all the required work because of exceptional circumstances. A grade of "I" will only be given under certain conditions and in accordance with the academic policies and regulations put forward in FAU's University Catalog. The student must show exceptional circumstances why requirements cannot be met. A request for an incomplete grade has to be made in writing with supporting documentation, where appropriate.

Policy on the Recording of Lectures

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Artificial Intelligence Preamble

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FAU students are not permitted to use AI for any course work unless explicitly allowed to do so by the instructor of the class for a specific assignment. [\[Policy 12.16 Artificial Intelligence\]](#)

Class policies related to AI use are decided by the individual faculty. Some faculty may permit the use of AI in some assignments but not others, and some faculty may prohibit the use of AI in their course entirely. In the case that an instructor permits the use of AI for some assignments, the assignment instructions will indicate when and how the use of AI is permitted in that specific assignment. It is the student's responsibility to comply with the instructor's expectations for each assignment in each course. When AI is authorized, the student is also responsible and accountable for the content of the work. AI may generate inaccurate, false, or exaggerated information. Users should approach any generated content with skepticism and review any information generated by AI before using generated content as-is.

If you are unclear about whether or not the use of AI is permitted, ask your instructor before starting the assignment.

Failure to comply with the requirements related to the use of AI may constitute a violation of the [Florida Atlantic Code of Academic Integrity, Regulation 4.001.](#)

Proper Citation: If the use of AI is permitted for a specific assignment, then use of the AI tool must be properly documented and cited. For more information on how to properly cite the use of AI tools, visit <https://fau.edu/ai/citation>

AI Language Specific To This Course

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- [Science Learning Center](#)
- [Speaking Center](#)
- [Student Accessibility Services](#)
- [Student Athlete Success Center \(SASC\)](#)
- [Testing and Certification](#)
- [Test Preparation](#)
- [University Academic Advising Services](#)
- [University Center for Excellence in Writing \(UCEW\)](#)
- [Writing Across the Curriculum \(WAC\)](#)

Course Topical Outline

The information on this Syllabus and Course Outline is subject to change due to changing circumstances. If needed, changes are communicated through the Canvas Announcement function within the course platform.

Anatomy and Physiology 1 Laboratory - Course Topical Outline

Date	Topic	Chapters	Lab Activity	Pre-lab Assignments	After lab Assignments
Lab 1	Introduction to Anatomy and Physiology	Unit 1	Unit 1. Activities 1.1, 2, 3	Unit 1: Read pp 1- 10 Complete pre-lab assignment on Pearson	1) Study for lab 1 quiz: syllabus and Units 1 and 2.
	Introduction to the Organ Systems	Unit 2	Unit 2. Activities 1 2	Unit 2: Read pp 20-22 Complete pre-lab assignment on Pearson	
Lab 2	The Microscope The Cell Histology	Unit 4 Unit 5 Unit 6	Unit 4. Activities 1, 2, 4, 5 Unit 5. Activities 2, 4 Unit 6. Activity 1	Unit 4: Read pp 51-57, 59-60 Complete pre-lab assignment on Pearson Unit 5: Read pp 65-72, 74-76 Complete pre-lab assignment on Pearson Unit 6: Read pp 85-91 Complete pre-lab on Pearson	1) Study for lab 2 quiz
Lab 3	Histology Integumentary System	Unit 6 Unit 7	Unit 6. Activities 2,3 Unit 7. Activities 1, 2	Unit 6: Read pp 91-101 Complete pre-lab on Pearson Unit 7: Read pp 109-119 Complete pre-lab on Pearson	1) Study for lab 3 quiz: Units 6 and 7

Date	Topic	Chapters	Lab Activity	Pre-lab Assignments	After lab Assignments
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Lab 4	Introduction to the Skeletal System Appendicular Skeleton.	Unit 8 Unit 10	Unit 8. Activities 1, 2, 3, 4 Unit 10. Activities 1, 2	Unit 8: Read pp 127-140 Complete pre-lab on Pearson Unit 10: Read pp 181-200 Complete pre-lab on Pearson	1) Study for lab 4 quiz: Units 8 and 10
Lab 5	Axial Skeleton	Unit 9	Unit 9. Activities 1, 2, 3, 4	Read pp 147-174 Complete pre-lab on Pearson	1) Study for lab 5 quiz: Unit 9
Lab 6	Joints	Unit 11	Unit 11. Activities 1, 2, 3	Read p 199, pp 209-224 Complete pre-lab on Pearson	1) Study for lab 6 quiz: Unit 11 2) Take quiz 6 on CANVAS.
Exam 1	Practical Exam 1 Covers Labs 1 – 6 Units 1-11				

Date	Topic	Chapters	Lab Activity	Pre-lab Assignments	After lab Assignments
Lab 7	Introduction to the Muscular System: Muscle Tissue	Unit 12	Unit 12. Activities 1, 2 <u>iWorx</u> muscle physiology experiments	Unit 12: Read pp 229-240 Complete pre-lab on Pearson Unit 13: Read pp 253-260 on Pearson Read <u>iWorx</u> protocol	1) Study for lab 7 quiz: Units 12, 13 (activity 1) and <u>iworx</u> experiment.
	Muscle Physiology	Unit 13	Unit 13. Activity 1		
	NO LAB: SPRING BREAK !!!				
Lab 8	Gross Anatomy of the Muscular System	Unit 13	Unit 13. Activities <u>2, 3, 4, 5</u>	Read pp 260-284 Complete pre-lab on Pearson	1) Study for lab 8 quiz: Unit 13 (activities 2-5)
Lab 9	Introduction to the Nervous System	Unit 14	Unit 14. Activities 2A, 3, 4	Unit 14: Read pp 293, 296, 298-306 Complete pre-lab on Pearson	1) Study for lab 9 quiz: Unit 14 and Unit 15
	The Central Nervous System: Brain, Spinal Cord	Unit 15	Unit 15. Activities 1, 3, 4, 5(Sheep brain dissection)	Unit 15: Read pp 313-324, pp 327-336 Complete pre-lab on Pearson	

Date	Topic	Chapters	Lab Activity	Pre-lab Assignments	After lab Assignments
Lab 10	The Peripheral Nervous System: Nerves and Autonomic Nervous System.	Unit 16	Unit 16. Activities 1, 2, 3, 4 <u>iWorx</u> experiment	Read pp 343-359 Complete pre-lab on Pearson Read <u>iWorx</u> handout	1) Study for lab 10 quiz: Unit 16 and <u>iWorx</u> experiment

Lab 11	General Senses and Special Senses: Olfaction, Gustation, Hearing	Unit 17	Unit 17. Activities 1, 2, 6, 7 <u>iWorx</u> experiment	Read pp 369-377; 386-392 Complete pre-lab on Pearson Read <u>iWorx</u> handout	1) Study for lab 11 quiz: Unit 17 (Activities 1, 2, 6,7)
Date	Topic	Chapters	Lab Activity	Pre-lab Assignments	After lab Assignments
Lab 12	Special senses: Vision	Unit 17	Unit 17. Activities 3, 4, 5 <u>iWorx</u> experiment	Read pp 377-386. Complete pre-lab on Pearson Read <u>iWorx</u> handout	1) Study for post 12 quiz: Unit 17 (Activities 3, 4, 5) 2) Take quiz 12 on CANVAS
Exam 2	Practical Exam 2 Covers Labs 7 – 12 Units 12-17				

Title IX Statement

In any case involving allegations of sexual misconduct, you are encouraged to report the matter to the University Title IX Coordinator in the Office of Civil Rights and Title IX (OCR9). If University faculty become aware of an allegation of sexual misconduct, they are expected to report it to OCR9. If a report is made, someone from OCR9 and/or Campus Victim Services will contact you to make you aware of available resources including support services, supportive measures, and the University's grievance procedures. More information, including contact information for OCR9, is available at <https://www.fau.edu/ocr9/title-ix/>. You may also contact Victim Services at victimservices@fau.edu or 561-297-0500 (ask to speak to an Advocate) or schedule an appointment with a counselor at Counseling and Psychological Services (CAPS) by calling 561-297-CAPS.



FLORIDA ATLANTIC UNIVERSITY

CJE 3674-001 13057

Intro to Forensic Science

3 Credit(s)

Spring 2025 - 1 Full Term

Instructor Information

Patrick McLaughlin

Email: pmclaughlin@fau.edu

Office: SO-221

Office Hours: T/Th 3:00-4:00 PM or by appointment

Phone: 561-297-3240

TA Name: Samantha White

Office: N/A

Office Hours: N/A

Telephone: N/A

Email: Whites2019@fau.edu

Course Description

Introduction to Forensic Science

Forensic Science is the application of scientific disciplines and principles to the legal system, particularly the litigation in court of contested factual disputes. This course examines the distinct fields of education and study that collectively comprise the forensic sciences. These fields include, among others, forensic psychiatry and psychology; forensic anthropology; forensic pathology; forensic toxicology, serology and DNA typing; questioned documents; crime scene investigation; forensic engineering; fingerprint evidence; polygraph and other investigative devices; and forensic chemistry, including drug analysis.

Introduction to forensic science is designed to give the participants an understanding of the methods, tools, and techniques used by both crime scene investigators and crime lab technicians to determine the probative value of evidence which may be produced during a criminal event.

The class will consist of live lecture, online lecture quizzes, and posted online exercises. Online exercises will consist of either discussion board questions or identification of virtual evidence which will be submitted online.

Lectures will be given in a live format. It is essential that students attend to access the material and remain current on the materials. Updates on materials covered and assignments will be made on the Announcements board on Canvas. Quizzes, Midterm and Final will be based on the materials covered in lecture and exercises. I reserve the right to add or remove lecture material as time allows in the semester. It will be vital for you to view or read Announcements.

The online quizzes and online exercises to be turned in upon viewing the appropriate material.

None

Instructional Method

Fully Online Class

100% of the course is delivered online.

Required Texts/Materials

No textbook for this course

All material will be provided on Canvas

Course Objectives/Student Learning Outcomes

This course is designed to introduce students to the concepts and principles that forensic scientists utilize and evaluate recovered evidence from a crime scene. Students will be expected to understand and apply these concepts in quizzes and exams based on lecture material. In addition to quizzes, all students will be required to complete assignments within each module. Assignments will require strong observation skills. Students completing this course should have developed an understanding of:

1. Recognize the methods and procedures to secure and process crime scenes.
2. Understand the nature of how physical evidence is left behind at crime scenes.

3. Understand how evidence is processed in a lab to produce qualitative and quantitative results.
4. Distinguish between evidence types and understand their probative value.
5. Assess and identify the strengths and weaknesses of evidence.
6. Understand the difference between class characteristics and individualizing characteristics.

Faculty Rights and Responsibilities

Florida Atlantic University respects the rights of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede their exercise. To ensure these rights, faculty members have the prerogative to:

- Establish and implement academic standards.
- Establish and enforce reasonable behavior standards in each class.
- Recommend disciplinary action for students whose behavior may be judged as disruptive under the Student Code of Conduct [University Regulation 4.007](#).

Disability Policy

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.

Course Evaluation Method

You will be evaluated based on four categories of material: Assignments (40%), Discussion Board Topics (15%), Quizzes (20%), and Exams (25%).

There is no “extra credit”. Quiz and assignment scores will be entered into Canvas as soon as possible.

No late work is accepted without proper documentation of an emergency. Congratulations if you've read this far. If you email me an image of a dragon, I will award you extra points onto your final average. This offer expires on February 1st.

“Major core courses must be completed with a grade of “C” or better. A grade of “C-” or lower in major core courses does not satisfy any major requirement and does not count toward the 120 credits required for the degree. Elective courses in the major must be completed with a grade of “C-” or better. A grade of “D+” or lower in general elective courses does not satisfy any graduation requirement and will not count toward the 120 credits required for a degree. Finally, students must maintain a “C” average in all courses applied to the major.”

Code of Academic Integrity

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

Students in this course are encouraged to collaborate on assigned "lab" materials and projects.

Students who collaborate on such assignments are required to cite the names of the students who contributed to each assignment. Students may not collaborate on quizzes nor exams. Students (and groups) are required to complete their own work. Outside sources for assignments, unless specifically authorized, will be considered grounds for cheating and will result in the grade of 0 for that assignment. The use of any AI empowered programs or assistants will be considered grounds of Academic Dishonesty.

Attendance Policy Statement

Students are expected to attend all their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations, or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances, and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

Religious Accommodation Policy Statement

In accordance with the rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices and beliefs regarding admissions, registration, class attendance, and the scheduling of examinations and work assignments. University Regulation 2.007, Religious Observances, sets forth this policy for FAU and may be accessed on the FAU website at www.fau.edu/regulations.

Any student who feels aggrieved regarding religious accommodations may present a grievance to the executive director of The Office of Civil Rights and Title IX. Any such grievances will follow Florida Atlantic University's established grievance procedure regarding alleged discrimination.

Time Commitment Per Credit Hour

For traditionally delivered courses, not less than one (1) hour of classroom or direct faculty instruction each week for fifteen (15) weeks per Fall or Spring semester, and a minimum of two (2) hours of out-of-class student work for each credit hour. Equivalent time and effort are required for Summer Semesters, which usually have a shortened timeframe. Fully Online courses, hybrid, shortened, intensive format courses, and other non-traditional modes of delivery will demonstrate equivalent time and effort.

Course Grading Scale

Letter Grade	Letter Grade
A	94 - 100%
A-	90 - 93%
B+	87 - 89%
B	83 - 86%
B-	80 - 82%
C+	77 - 79%
C	73 - 76%
C-	70 - 72%
D+	67 - 69%
D	63 - 66%
D-	60 - 62%
F	Below 60

Grade Appeal Process

You may request a review of the final course grade when you believe that one of the following conditions apply:

- There was a computational or recording error in the grading.
- The grading process used non-academic criteria.
- There was a gross violation of the instructor's own grading system.

[University Regulation 4.002](#) of the University Regulations contains information on the grade appeals process

Policy on Make-up Tests, Late work, and Incompletes

Students who require extensions for work submissions must apply for it within 24 hours of any assignment due dates. As a teacher I want your best work, not your stressed work. Please be considerate of that as deadlines approach and plan accordingly. I am willing to accept work after the due date but you must contact me prior to the deadline. This is a professional courtesy that will be expected of you when you have full time employment.

Policy on the Recording of Lectures

Students enrolled in this course may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. **Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member.** Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

AI Language Specific To This Course

AI Prohibited: The use of AI to assist in any work assigned in this specific course is prohibited. The use of ANY outside media or material, unless specifically authorized by the instructor, is strictly forbidden.

Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual therapy, group therapy, and crisis services, to name a few - offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>

Student Support Services and Online Resources

- [Center for Learning and Student Success \(CLASS\)](#)
- [Counseling and Psychological Services \(CAPS\)](#)
- [FAU Libraries](#)
- [Math Learning Center](#)
- [Office of Information Technology Helpdesk](#)
- [Center for Global Engagement](#)
- [Office of Undergraduate Research and Inquiry \(OURI\)](#)
- [Science Learning Center](#)
- [Speaking Center](#)
- [Student Accessibility Services](#)
- [Student Athlete Success Center \(SASC\)](#)
- [Testing and Certification](#)
- [Test Preparation](#)
- [University Academic Advising Services](#)
- [University Center for Excellence in Writing \(UCEW\)](#)
- [Writing Across the Curriculum \(WAC\)](#)

Artificial Intelligence Preamble

FAU recognizes the value of generative AI in facilitating learning. However, output generated by artificial intelligence (AI), such as written words, computations, code, artwork, images, music, etc., for example, is drawn from previously published materials and is not your own original work.

FAU students are not permitted to use AI for any course work unless explicitly allowed to do so by the instructor of the class for a specific assignment. [\[Policy 12.16 Artificial Intelligence\]](#)

Class policies related to AI use are decided by the individual faculty. Some faculty may permit the use of AI in some assignments but not others, and some faculty may prohibit the use of AI in their course

entirely. In the case that an instructor permits the use of AI for some assignments, the assignment instructions will indicate when and how the use of AI is permitted in that specific assignment. It is the student's responsibility to comply with the instructor's expectations for each assignment in each course. When AI is authorized, the student is also responsible and accountable for the content of the work. AI may generate inaccurate, false, or exaggerated information. Users should approach any generated content with skepticism and review any information generated by AI before using generated content as-is.

If you are unclear about whether or not the use of AI is permitted, ask your instructor before starting the assignment.

Failure to comply with the requirements related to the use of AI may constitute a violation of the [Florida Atlantic Code of Academic Integrity, Regulation 4.001.](#)

Proper Citation: If the use of AI is permitted for a specific assignment, then use of the AI tool must be properly documented and cited. For more information on how to properly cite the use of AI tools, visit <https://fau.edu/ai/citation>

Course Topical Outline

DATE	LECTURE TOPIC	LAB/ASSIGNMENT
07-JAN	CRIME SCENE & PHYSICAL EVIDENCE	
14-JAN	CRIME SCENE & PHSYICAL EVIDENCE	
21-JAN	LIGHT, MICROSCOPY, & PHOTOGRAPHY	CRIME SCENE PROJECT
28-JAN	TRACE EVIDENCE	HAIR LAB
04-FEB	TRACE EVIDENCE	FIBER LAB
11-FEB	IMPRESSION EVIDENCE I	LATENT PRINT LAB
18-FEB	IMPRESSION EVIDENCE II	FOOTWEAR LAB
25-FEB	FIREARMS AND BALLISTICS	BALLISTICS CASE STUDY
04-MAR	SPRING BREAK	
11-MAR	MIDTERM EXAM	CSU, TRACE, IMPRESSIONS
18-MAR	BLOOD EVIDENCE	BLOOD LAB
25-MAR	TOXICOLOGY I	
01-APR	TOXICOLOGY II	TOXICOLOGY LAB
08-APR	DNA I	
15-APR	DNA II	DNA LAB

Title IX Statement

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FLORIDA ATLANTIC UNIVERSITY

CJE 4247-001 14628

Advanced Forensic Science

Date: Thursday 11:00 AM - 1:50 PM

Building: General Classroom South Boca **Room:** 117

3 Credit(s)

Spring 2025 - 1 Full Term

Instructor Information

Patrick McLaughlin

Email: pmclaughlin@fau.edu

Office: SO-272

Office Hours: Tues/Thurs 3-4:00PM

Phone: 561-297-3240

Course Description

Advanced Forensic Science

Prerequisite: CJE 3674

Advanced forensic science is designed to give the participants a deeper understanding of the methods, tools, and techniques used by both crime scene investigators and crime lab technicians to determine the probative value of evidence that may be produced during a criminal event. This class focuses on the techniques and information that can be gleaned from recovered evidence, the proper and detailed analysis of that evidence, and the use of both evidence and investigator notes to create an accurate reconstruction of a criminal event.

Advanced forensic science is designed to give the participants a deeper understanding of the methods, tools, and techniques used by both crime scene investigators and crime lab technicians to determine the probative value of evidence which may be produced during a criminal event. This class will focus on the techniques and information that can be gleaned from recovered evidence, the proper

and detailed analysis of that evidence, and the use of both evidence and investigator notes to create an accurate reconstruction of a criminal event.

The class will consist of lecture, online lecture quizzes, and posted online exercises. Online exercises will consist of either discussion board questions or identification of virtual evidence which will be submitted online. Participants will be required to work in groups to properly investigate evidence and compose a working crime scene investigation and reconstruction. Evidence classifications and determinations will be similar to those discussed in CJE3764 Introduction to Forensic Science. Careful observations of the materials will be vital to properly identifying their nature and give each group insights into how that particular piece of evidence fits into the overall investigation.

Lectures will be given in a live format and notes will be posted to Canvas as classes proceed. Updates on materials covered and assignments will be made on the Announcements board on Canvas each week. Quizzes and Final will be based on the materials covered in lecture and exercises. Assignments and observations will be based on the student's ability to apply class concepts into real world settings. I reserve the right to add or remove lecture material as time allows in the semester.

The online quizzes and online assignments will be posted to Canvas. Assignments are to be turned in upon viewing the appropriate material.

Prerequisites/Corequisites

Prerequisite(s): The following course:

- CJE 3674 Graduate / Undergraduate (Minimum Grade of C)

"Major core courses must be completed with a grade of "C" or better. A grade of "C-" or lower in major core courses does not satisfy any major requirement and does not count toward the 120 credits required for the degree. Elective courses in the major must be completed with a grade of "C-" or better. A grade of "D+" or lower in general elective courses does not satisfy any graduation requirement and will not count toward the 120 credits required for a degree. Finally, students must maintain a "C" average in all courses applied to the major."

Required Texts/Materials

CRUISER FINGERPRINT KIT

Publisher: ARROWHEAD FORENSICS

Course Objectives/Student Learning Outcomes

This course is designed to continue and expand the concepts and principles that forensic scientists utilize and evaluate recovered evidence from a crime scene. Students will be expected to understand and apply these concepts in critical thinking applications and assignments. Assignments will require strong observation skills, logic, and deductive reasoning. Remember to think about what you see and know before acting upon instinct. Upon successful completion of this course, students should be able to broadly understand the following:

1. Evaluate physical evidence and how it can contribute to an investigation.
2. Assign probative value to various evidence types.
3. Describe how some forms of evidence can link to individuals.
4. Describe how some forms of evidence can link to other forms of evidence.
5. Apply critical thinking to the environment of a crime scene in evaluating statements.
6. Compile statements and physical evidence to establish a logical crime scene reconstruction.

Faculty Rights and Responsibilities

Florida Atlantic University respects the rights of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede their exercise. To ensure these rights, faculty members have the prerogative to:

- Establish and implement academic standards.
- Establish and enforce reasonable behavior standards in each class.
- Recommend disciplinary action for students whose behavior may be judged as disruptive under the Student Code of Conduct [University Regulation 4.007](#).

Disability Policy

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.

Course Evaluation Method

You will be evaluated based on four categories of material: Assignments (20%), Observations (20%), Latent Print Study (20%), and Crime Scene Presentation (40%).

There is no “extra credit”. Quiz and assignment scores will be entered into Canvas as soon as possible.

No late work is accepted without proper documentation of an emergency. Congratulations if you've read this far. If you randomly email me a photo of a vampire, I will award you extra points onto your final average. This offer expires on February 1st.

Code of Academic Integrity

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

Attendance Policy Statement

Students are expected to attend all their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations, or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances, and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

Field Days on the calendar are designed to give the students active participation with the materials we have discussed throughout Intro to FOS and within this term. A classroom on campus will be reserved and students are ***STRONGLY*** encouraged to attend the hands-on workshops. During these weeks, a brief lecture will be given followed by application of the subject matter in “field conditions.” The dates of “Field Days” will be posted but students are advised to bear in mind that many of the field days will be completed outdoors. Inclement weather may cause the postponement or shifting of field experiences.

Religious Accommodation Policy Statement

In accordance with the rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices and beliefs regarding admissions, registration, class attendance, and the scheduling of examinations and work assignments. University Regulation 2.007, Religious Observances, sets forth this policy for FAU and may be accessed on the FAU website at www.fau.edu/regulations.

Any student who feels aggrieved regarding religious accommodations may present a grievance to the executive director of The Office of Civil Rights and Title IX. Any such grievances will follow Florida Atlantic University's established grievance procedure regarding alleged discrimination.

Time Commitment Per Credit Hour

For traditionally delivered courses, not less than one (1) hour of classroom or direct faculty instruction each week for fifteen (15) weeks per Fall or Spring semester, and a minimum of two (2) hours of out-of-class student work for each credit hour. Equivalent time and effort are required for Summer Semesters, which usually have a shortened timeframe. Fully Online courses, hybrid, shortened, intensive format courses, and other non-traditional modes of delivery will demonstrate equivalent time and effort.

Course Grading Scale

Letter Grade	Letter Grade
A	94 - 100%
A-	90 - 93%
B+	87 - 89%
B	83 - 86%
B-	80 - 82%
C+	77 - 79%
C	73 - 76%
C-	70 - 72%
D+	67 - 69%
D	63 - 66%
D-	60 - 62%
F	Below 60

Grade Appeal Process

You may request a review of the final course grade when you believe that one of the following conditions apply:

- There was a computational or recording error in the grading.
- The grading process used non-academic criteria.
- There was a gross violation of the instructor's own grading system.

[University Regulation 4.002](#) of the University Regulations contains information on the grade appeals process

Policy on Make-up Tests, Late work, and Incompletes

Throughout the semester, you have multiple assignments which will require you to perform real life observations. I cannot control the overall nature of this assignment. The listed due dates for all materials are posted. These dates are merely guidelines and are not binding for you. All materials must be submitted to me by April 20th. Any material outstanding beyond that date will be graded as a zero.

Policy on the Recording of Lectures

Students enrolled in this course may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

Some of the material we will cover is very sensitive to members of our community. I freely invite and encourage you to record, photo, and post the "field day" activities to social media. If you feel the need to post ANY lecture materials to social media, please contact me to discuss this matter further.

Artificial Intelligence Preamble

FAU recognizes the value of generative AI in facilitating learning. However, output generated by artificial intelligence (AI), such as written words, computations, code, artwork, images, music, etc., for example, is drawn from previously published materials and is not your own original work.

FAU students are not permitted to use AI for any course work unless explicitly allowed to do so by the instructor of the class for a specific assignment. [\[Policy 12.16 Artificial Intelligence\]](#)

Class policies related to AI use are decided by the individual faculty. Some faculty may permit the use of AI in some assignments but not others, and some faculty may prohibit the use of AI in their course entirely. In the case that an instructor permits the use of AI for some assignments, the assignment instructions will indicate when and how the use of AI is permitted in that specific assignment. It is the student's responsibility to comply with the instructor's expectations for each assignment in each course. When AI is authorized, the student is also responsible and accountable for the content of the work. AI may generate inaccurate, false, or exaggerated information. Users should approach any generated content with skepticism and review any information generated by AI before using generated content as-is.

If you are unclear about whether or not the use of AI is permitted, ask your instructor before starting the assignment.

Failure to comply with the requirements related to the use of AI may constitute a violation of the [Florida Atlantic Code of Academic Integrity, Regulation 4.001.](#)

Proper Citation: If the use of AI is permitted for a specific assignment, then use of the AI tool must be properly documented and cited. For more information on how to properly cite the use of AI tools, visit <https://fau.edu/ai/citation>

AI Language Specific To This Course

- AI Prohibited: The use of AI to assist in any work assigned in this specific course is prohibited.

Counseling and Psychological Services (CAPS) Center

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- [Center for Global Engagement](#)
- [Office of Undergraduate Research and Inquiry \(OURI\)](#)
- [Science Learning Center](#)
- [Speaking Center](#)
- [Student Accessibility Services](#)
- [Student Athlete Success Center \(SASC\)](#)
- [Testing and Certification](#)
- [Test Preparation](#)
- [University Academic Advising Services](#)
- [University Center for Excellence in Writing \(UCEW\)](#)
- [Writing Across the Curriculum \(WAC\)](#)

Course Topical Outline

DATE	LECTURE TOPIC	ASSIGNMENT
09-JAN	INTRO & BIAS DISCUSSION	
16-JAN	SCIENTIFIC PRINCIPLES OF FOS	
23-JAN	CRIME SCENE PROCEDURE	
30-JAN	CRIME SCENE PROCEDURE	
06-FEB	LATENT FINGERMARK DEVELOPMENT	FIELD DAY
13-FEB	FIREARMS AND SIR	FIELD DAY/BALLISTICS CASE
20-FEB	INVESTIGATIVE PROCESSES	
27-FEB	CRIME SCENE RECONSTRUCTION	FIELD DAY
06-MAR	SPRING BREAK	NO CLASS
13-MAR	BLOOD EVIDENCE AND BPA	FIELD DAY
20-MAR	IMPRESSION EVIDENCE	FIELD DAY
27-MAR	CRIME SCENE ANALYSIS	

03-APR	ANATOMY OF A VIOLENT CRIME	
10-APR	ANTHROPOLOGY & TAPHONOMY	
17-APR	CASE STUDY: BREONNA TAYLOR	
21-APR	CRIME SCENE PRESENTATION	

Title IX Statement

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FLORIDA ATLANTIC UNIVERSITY

ANT 4520-001 13204

Forensic Anthropology

Date: Tuesday, Thursday 11:00 AM - 12:20 PM

Building: Social Science Boca **Room:** 190

3 Credit(s)

Spring 2025 - 1 Full Term

Instructor Information

Meredith Ellis

Email: ellism@fau.edu

Office: SO 185

Office Hours: T/Th 1:30-3:00 or by appointment

Phone: Please contact me by email

Course Description

Forensic Anthropology

Course covers the application of scientific and anthropological techniques to criminal investigations in support of law enforcement, focusing on the skills necessary to carry out a basic analysis of human skeletal remains to determine identity of the decedent and the manner and cause of death.

Course Expectations:

In this course, we will be relying on lectures, readings, case studies, films, and guest lecturers to highlight how forensic anthropologists do their work. We will spend time in the first unit learning about the human body, and then in our second unit and third units learning about the techniques used by practitioners. In order for you to be successful in this course, you will need to read all assignments and come to class prepared to engage in a discussion of the cases and techniques they present. Participation in class is part of your final grade. You will have three unit exams in this class and one

final paper. Additionally, there will be daily homework assignments (QQCs) that go along with your reading as well as in-class work related to guest lectures, films, and discussions.

On occasion, we may use casts or real human remains in class. You are expected to treat these remains and casts with dignity and respect at all times. Any improper or disrespectful handling of the remains will result in disciplinary action.

Recommended:

To assist with learning the skeleton, you may want to use some additional resources. I recommend three options: 1) eskeletons.org is a good website for studying the skeleton. 2) Essential Skeleton 3/4 is a great free app for your Smartphone or tablet and is my personal favorite of these three options. Please note that these are for your personal use at home and are not needed for class, nor is technology allowed in the classroom.

Instructional Method

In-Person

Traditional concept of in person. Mandatory attendance is at the discretion of the instructor.

Required Texts/Materials

Additional readings are posted on Canvas

Hard Evidence: Case Studies in Forensic Anthropology

ISBN: 9780136050735

Publisher: Routledge

Edition: 2nd

Forensic Anthropology

ISBN: 9780128157350

Publisher: Elsevier

Edition: 2nd

Hard Evidence

ISBN: 9781317347958

Publisher: Taylor & Francis Group, LLC

Edition: 2nd

Course Objectives/Student Learning Outcomes

Students will

- Learn about the methods forensic anthropologists use, including learning about osteology, archaeology, and cross-cultural methodologies, all of which are then applied to the concerns of the medico-legal community. Special attention will be paid to international and human rights case work.
- Have developed an understanding of the field of forensic anthropology and an appreciation for the methodologies used by practitioners.
- Be able to discern fact from fiction in media portrayals of the field.

Faculty Rights and Responsibilities

Florida Atlantic University respects the rights of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede their exercise. To ensure these rights, faculty members have the prerogative to:

- Establish and implement academic standards.
- Establish and enforce reasonable behavior standards in each class.
- Recommend disciplinary action for students whose behavior may be judged as disruptive under the Student Code of Conduct [University Regulation 4.007](#).

Disability Policy

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.

Course Evaluation Method

Exam 1: 20%

Exam 2: 20%

Exam 3: 20%

Final Paper: 25%

Attendance: 5%

Course Participation and Homework: 10%

Course Participation and Homework:

Participation in this course includes your thoughtful attention and participation in lectures and discussion; completion of in-class work (including movie sheets, quizzes, and writing assignments); and completion of homework assignments, including all QQC assignments (see last page of syllabus). Other homework will be assigned via Canvas during the semester. Quizzes may be given unannounced at any time. Disruption of the class, use of technology without permission, and absences will negatively affect your participation grade.

Exams:

There will be three unit exams during this semester. These will be a combination of multiple choice, short answer, and short essays. Exams will cover material from both our readings and our lectures. All exams will be in our regularly scheduled class sections.

Final Paper:

There will be final paper, 5-7 pages long, assigned towards the end of the semester.

Extra Credit:

Twice during the semester you may present to the class a current event news article related to forensic anthropology. Current events must date to the past year, and must be from a credible source (i.e. not a Facebook post). Articles are to be printed out and a 2-3 paragraph write-up for each article turned in at the beginning of class explaining how the issues are related to forensic anthropology work. You will be asked to explain the article and your analysis of it to the class before handing it in. Each of these articles will be worth up to 3 points of extra credit on one of our unit exams.

Code of Academic Integrity

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

AI and ChatGPT Anthropology Department Policy:

Turning in an AI-generated paper as your own work constitutes academic dishonesty and may also constitute plagiarism.

Attendance Policy Statement

Students are expected to attend all their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations, or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances, and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

As this class meets twice a week, **two absences** will be allowed without penalty. After that, each absence will lower your final grade. You are responsible for all material that is covered in this course even when you are absent.

Religious Accommodation Policy Statement

In accordance with the rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices and beliefs regarding admissions, registration, class attendance, and the scheduling of examinations and work assignments. University Regulation 2.007, Religious Observances, sets forth this policy for FAU and may be accessed on the FAU website at www.fau.edu/regulations.

Any student who feels aggrieved regarding religious accommodations may present a grievance to the executive director of The Office of Civil Rights and Title IX. Any such grievances will follow Florida Atlantic University's established grievance procedure regarding alleged discrimination.

Time Commitment Per Credit Hour

For traditionally delivered courses, not less than one (1) hour of classroom or direct faculty instruction each week for fifteen (15) weeks per Fall or Spring semester, and a minimum of two (2) hours of out-of-class student work for each credit hour. Equivalent time and effort are required for Summer Semesters, which usually have a shortened timeframe. Fully Online courses, hybrid, shortened,

intensive format courses, and other non-traditional modes of delivery will demonstrate equivalent time and effort.

Course Grading Scale

Letter Grade	Letter Grade
A	94 - 100%
A-	90 - 93%
B+	87 - 89%
B	83 - 86%
B-	80 - 82%
C+	77 - 79%
C	73 - 76%
C-	70 - 72%
D+	67 - 69%
D	63 - 66%
D-	60 - 62%
F	Below 60

Grade Appeal Process

You may request a review of the final course grade when you believe that one of the following conditions apply:

- There was a computational or recording error in the grading.
- The grading process used non-academic criteria.
- There was a gross violation of the instructor's own grading system.

[University Regulation 4.002](#) of the University Regulations contains information on the grade appeals process

Policy on Make-up Tests, Late work, and Incompletes

Make up work and late exams are not permitted. All assignments and exams are due on the day listed on the syllabus.

Special Course Requirements

Communication

Please feel free to contact me ANY time you need help. This includes coming to office hours, scheduling an appointment to see me, or emailing me questions. Please note, however, that while I regularly check my email during the day, I do not check into the evening hours or nighttime regularly. So, if you have last minute questions, I encourage you to write to me or come see me well in advance; emails sent at midnight the night before an assignment is due will not be answered until the next morning!

A Final Note

The content of this course is not easy. We will be reading about death and looking at pictures of dead and decomposing bodies and skeletons. We will discuss violence, murder, and genocide. At times this may be overwhelming. If you need to look away or step out of the room, please feel free to do so. We will all understand. In addition, there is a fairly heavy reading load for this course, and due to the sensitive nature, and, at times, legal status, of the images used in PowerPoints, I cannot share them online or have them photographed or video recorded. You will need to commit to the work load and commit to being present in class in order to be successful this semester.

Policy on the Recording of Lectures

Students enrolled in this course may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

Please note that students may not take pictures or recordings of human remains or casts or circulate images outside of class. Students caught recording or photographing remains--those used in class or those shown in PowerPoints-- will be immediately expelled from the course and disciplinary action will be pursued.

Artificial Intelligence Preamble

FAU recognizes the value of generative AI in facilitating learning. However, output generated by artificial intelligence (AI), such as written words, computations, code, artwork, images, music, etc., for example, is drawn from previously published materials and is not your own original work.

FAU students are not permitted to use AI for any course work unless explicitly allowed to do so by the instructor of the class for a specific assignment. [\[Policy 12.16 Artificial Intelligence\]](#)

Class policies related to AI use are decided by the individual faculty. Some faculty may permit the use of AI in some assignments but not others, and some faculty may prohibit the use of AI in their course entirely. In the case that an instructor permits the use of AI for some assignments, the assignment instructions will indicate when and how the use of AI is permitted in that specific assignment. It is the student's responsibility to comply with the instructor's expectations for each assignment in each course. When AI is authorized, the student is also responsible and accountable for the content of the work. AI may generate inaccurate, false, or exaggerated information. Users should approach any generated content with skepticism and review any information generated by AI before using generated content as-is.

If you are unclear about whether or not the use of AI is permitted, ask your instructor before starting the assignment.

Failure to comply with the requirements related to the use of AI may constitute a violation of the [Florida Atlantic Code of Academic Integrity, Regulation 4.001.](#)

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AI Language Specific To This Course

Use of AI in any assignment is prohibited. If AI is detected, the assignment will receive an automatic F.

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Course Topical Outline

COURSE SCHEDULE

Unit 1: The Field and The Body

Week 1: Introduction to Forensic Anthropology

Tues 1/7: Introduction to Forensic Anthropology

Thurs 1/9: Introduction to Anthropology and Forensics

“A Path to America/A Northbound Path,” (on Canvas)

Week 2: History, Methods, and Techniques

Tues 1/14: History of Forensic Anthropology

CPB Ch 1

Thurs 1/16: Methods, Techniques, and Training

S Ch 1 and 2

Week 3: The Skeleton

Tues 1/21: Chemistry and the Skeleton Part 1

CPB Ch 2

Thurs 1/23: The Skeleton Part 2

CPB Ch 3

Week 4: Review and Exam

Tues 1/28: Film Viewing: Unearthing Evil

Thurs 1/30: **EXAM 1**

Unit 2: The Biological Profile

Week 5: Age and Sex and Ancestry

Tues 2/4: Age and Sex

CPB Ch 8 and 10

Thurs 2/6: Ancestry

CPB Ch 9 (SKIM ONLY)

Letter to the Editor (on Canvas)

Uncloaking a Lost Cause (on Canvas)

Week 6: DNA and Trauma

Tues 2/11: Personal Identifiers and DNA

CPB 14

“DNA Identification and Forensic Anthropology: Developments in DNA Collection, Analysis, and Technology” (CANVAS)

AND

“When DNA is Not Available, Can We Still Identify People? (CANVAS)

Thurs 2/13: Trauma

CPB Ch. 13

S Ch. 15

Week 7: Recovery

Tues 2/18: Taphonomy and Postmortem Interval

S Ch. 13 and 23

Thurs 2/20: Hands on activity

S. Ch 3

Week 8: Review and Exam

Tues 2/25: Film Viewing: Discovering Dominga

Thurs 2/27: **EXAM 2**

Unit 3: Case Studies

Week 9: SPRING BREAK

Tues 3/4: SPRING BREAK

Thurs 3/6: SPRING BREAK

Week 10: US Cases

Tuesday 3/11: Locating

S Ch 9 and 10

Thurs 3/13: Trophies

S Ch 14 and 21

Week 11: Case Studies: Latin American

Tues 3/18: Argentina and Chile

“Forensic anthropology and the investigation of Political Violence: Lessons Learned from Latin America and the Balkans” (Canvas)

AND

“Exhumations, Territoriality, and Necropolitics in Chile and Argentina” (CANVAS)

Thurs 3/20: Argentina Part 2

S Ch 24 and 25

Week 12: The Balkans and Korea

Tues 3/25: The Balkans

“Fresh Scars on the Body of Archaeology” (on Canvas)

AND

“Forensic Anthropology in Bosnia and Herzegovina” (available on Canvas).

Th 3/27: Korea

“Korean War Mass Graves” (CANVAS)

AND

“The Quandaries of Partial and Commingled Remains: Srebrenica’s Missing and Korean War Casualties

Compared” (CANVAS)

Week 13: Other Locations

Tues 4/1: The Middle East

“Hapless in Afghanistan” (available on Canvas)

TBA

Thurs 4/3: Ukraine

TBA

Week 14: Applications to the Past

Tues 4/8: **EXAM 3**

Thurs 4/9: Trauma in Bioarchaeology

“A Case of Historic Cannibalism in the American West” (available on Canvas)

Film Viewing: Jane: Starvation, Cannibalism, and Endurance at Jamestown

Week 15: Review and Wrap Up

Tues 4/15: Review an episode of Bones

Thurs 4/17: Concluding discussion: Professional Ethics

****Final Project due by April 29th, 10:30****

*******Syllabus subject to change at any point in the semester*******

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grievance procedures. More information, including contact information for OCR9, is available at <https://www.fau.edu/ocr9/title-ix/>. You may also contact Victim Services at victimservices@fau.edu or 561-297-0500 (ask to speak to an Advocate) or schedule an appointment with a counselor at Counseling and Psychological Services (CAPS) by calling 561-297-CAPS.

QQC Assignment

When you come to class you should have done the reading for that day as described in the syllabus; you should have thought about the arguments the authors are making; you should have summarized them in your notes; and you should be prepared to discuss them. To facilitate our discussions, each student will be expected to complete a brief written assignment prior to every class for which readings are assigned. For each class's assigned readings, you will write a QQC (i.e., one per day, not one per reading): a Quotation, a Question, and a Comment.

A Quotation from that day's assigned reading(s) that surprised you, puzzled you, provoked you, or interested you;

A Question that occurred to you based on your reading for that day;

A Comment (no more than 3-5 sentences) responding to the reading(s) by affirming, qualifying, or challenging an important claim.

These should be typed and submitted on Canvas by one hour before class time (10am). Your QQC must reflect your own academic work, and should not be borrowed from another student. We will use these to start class discussion, so any part of your QQC may be read aloud during class.

Occasionally I may replace the QQC with another assignment. If that is the case, you will be notified by email and it will be posted on Canvas.

Your first QQC is due Thursday (QQC 1).