Fundamentals of Machine Learning

EEL 5840

Class Periods: T, period 4, 10:40 AM – 11:30 AM, R, period 4-5, 10:40 AM – 12:30 PM

Location: NEB 100
Academic Term: Fall 2022

Instructor: Dr. Catia S. Silva Email: catiaspsilva@ece.ufl.edu

Phone: (352) 392-6502 Office Location: NEB 467

Office Hours: Fridays 10:00 AM - 11:30 AM

Slack: uf-eel5840-fall2022.slack.com

Teaching Assistant Student:

Marquez Jones

• Email: marquezjones@ufl.edu,

• Office Hours: Mondays 10:30am - 11:30am and Wednesdays 10:30am - 11:30am

• Location: NEB 589

Supervised Teaching Students:

Chaoyue Sun

• Email: chaoyue.sun@ufl.edu

Office Hours: Thursdays 1:30pm - 2:30pm

• Location: NEB 401

Anna Hampton

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• Office Hours: Wednesdays 3:00pm - 4:00pm

• Location: NEB 589

Khaled Hamad

• Email: k.hamad@ufl.edu

• Office Hours: Mondays 4:00pm - 5:00pm

Location: NEB 589

Course Description

(3 credits) Engineering and hardware concepts pertaining to design of intelligent computer systems.

Course Pre-Requisites / Co-Requisites

None.

Students may not take this course if they have already taken EEE4773.

Course Objectives

Understand and utilize the concepts of machine learning for data science and electrical engineering. Focus on tools for multivariate data analysis and how to handle uncertain data with probability models.

Upon completion of this course, the student will be able to:

- Identify relevant real-world problems as instances of canonical machine learning problems.
- Design and implement effective strategies for data preprocessing.
- Explain and utilize concepts of machine learning for data science and electrical engineering
- Compare and contrast evaluation metrics

- Foresee and mitigate human-based liabilities of machine learning algorithms
- General level of competency in critical questioning and analysis
- Students will know how to make connections between different fields of machine learning

Materials and Supply Fees

None

Required Textbooks and Software

1. Required Software/Hardware:

- A computer with the following software installed:
 - o Python 3.4.3 or later
 - o Anaconda Distribution
 - o Git

Please see the <u>computer requirements</u> for minimum hardware requirements.

2. Required Textbooks:

- Pattern Recognition and Machine Learning
 - Christopher Bishop
 - o Springer, 2006
 - o ISBN: 978-0-38731-073-2

The textbook is freely available as a <u>digital pdf</u> and is perfectly fine for this course.

Recommended Materials

- Introduction to Machine Learning
 - o Ethem Alpaydin
 - o 3rd edition
 - o The MIT Press, 2014
 - o ISBN: 978-8-120-35078-6

This book is freely available online via Course Reserves (you can easily access it under the "Course Reserves" tab in our Canvas page)

• Mathematics for Machine Learning

- o Marc Peter Deisenroth, A. Aldo Faisal, and Cheng Soon
- o Cambridge University Press, 2020
- o ISBN: 978-1-108-45514-5

The textbook is freely available as a <u>digital pdf</u> and is perfectly fine for this course.

All textbooks are listed and available online through Course Reserves. You can also find this information under the icon "Course Reserves" in our Canvas page.

Course Schedule

The following schedule is tentative and may vary due to time constraints.

Module	Lecture	Day	Topic/s
1. Introduction to Machine Learning	1	R, 08/25	 What is Machine Learning? Introduction to Git, Jupyter Notebooks and Python Types of learning Introduction to Supervised Learning with linear regression Model selection; Occam's Razor
	2	T, 08/30	GeneralizationRegularization

2. Experimental			The Bias-Variance Trade-Off
Design and Analysis	•		
		D	Experimental Design
	3	R, 09/01	Hyperparameter tuning; Cross-validation
		09/01	The Curse of Dimensionality
	4	Т,	Maximum Likelihood Estimation (MLE)
		09/06	Maximum A Posteriori (MAP)
3. Bayesian Learning	5	R, 09/08	Bayesian Prior Equivalence
	6	T, 09/13	HiperGator help session
			Introduction to Classification
		07/10	Naïve Bayes Classifier
		R, 09/15	Mixture Models
4. Generative	7		Expectation-Maximization (EM) algorithm
Classification			Gaussian Mixture Models
510051110011	8	Т,	Evaluation Metrics
		09/20	Final Project Discussion
5. Non-parametric		R,	K-Means Clustering
Learning	9	09/22	Cluster Validity Metrics
		•	K-Nearest Neighbors
	10	Т,	Linear Discriminant Functions
		09/27	Fisher's Linear Discriminant Analysis
6. Discriminative	11	R,	The Perceptron Algorithm
Classification		09/29	Logistic Discrimination
		Τ,	
	12	10/04	Midterm Exam Review
	mpus: Mo	10/04 onday, Oct	tober 10 @ 7:20 PM - 9:20 PM, covers modules 1-6 (Lect. # 1-12)
	mpus: Mo	10/04 onday, Oct	
	mpus: Mo kam EDGE	10/04 onday, Oct	tober 10 @ 7:20 PM - 9:20 PM, covers modules 1-6 (Lect. # 1-12)
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	mpus: Mo kam EDGE	10/04 onday, Oct /Online: M R, 10/06	 cober 10 @ 7:20 PM - 9:20 PM, covers modules 1-6 (Lect. # 1-12) Monday, October 10, covers modules 1-6 (Lect. # 1-12) Kernel Machines Constrained Optimization with Lagrange Multipliers
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Midterm Ex	ampus: Mo cam EDGE	10/04 onday, Oct c/Online: N R, 10/06 T, 10/11	 cober 10 @ 7:20 PM - 9:20 PM, covers modules 1-6 (Lect. # 1-12) Monday, October 10, covers modules 1-6 (Lect. # 1-12) Kernel Machines Constrained Optimization with Lagrange Multipliers Kernel Trick Hard-Margin Support Vector Machine (SVM)
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Midterm Ex	13 14 15 16	10/04 onday, Oct /Online: N R, 10/06 T, 10/11 R, 10/13 T,	 cober 10 @ 7:20 PM - 9:20 PM, covers modules 1-6 (Lect. # 1-12) Monday, October 10, covers modules 1-6 (Lect. # 1-12) Kernel Machines Constrained Optimization with Lagrange Multipliers Kernel Trick Hard-Margin Support Vector Machine (SVM) Slack Variables Soft-Margin SVM
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7. Kernel Machine 8. Dimensionality	13 14 15 16 17	10/04 onday, Oct c/Online: N R, 10/06 T, 10/11 R, 10/13 T, 10/18 R,	 cober 10 @ 7:20 PM - 9:20 PM, covers modules 1-6 (Lect. # 1-12) Monday, October 10, covers modules 1-6 (Lect. # 1-12) Kernel Machines Constrained Optimization with Lagrange Multipliers Kernel Trick Hard-Margin Support Vector Machine (SVM) Slack Variables Soft-Margin SVM Feature Selection Principal Component Analysis (PCA)
7. Kernel Machine 8. Dimensionality	13 14 15 16	10/04 onday, Oct /Online: N R, 10/06 T, 10/11 R, 10/13 T, 10/18 R, 10/20	 cober 10 @ 7:20 PM - 9:20 PM, covers modules 1-6 (Lect. # 1-12) Monday, October 10, covers modules 1-6 (Lect. # 1-12) Kernel Machines Constrained Optimization with Lagrange Multipliers Kernel Trick Hard-Margin Support Vector Machine (SVM) Slack Variables Soft-Margin SVM Feature Selection Principal Component Analysis (PCA) Kernel PCA
7. Kernel Machine 8. Dimensionality	13 14 15 16 17	10/04 onday, Oct c/Online: N R, 10/06 T, 10/11 R, 10/13 T, 10/18 R, 10/20 T, 10/25 R, 10/27	 cober 10 @ 7:20 PM - 9:20 PM, covers modules 1-6 (Lect. # 1-12) Monday, October 10, covers modules 1-6 (Lect. # 1-12) Kernel Machines Constrained Optimization with Lagrange Multipliers Kernel Trick Hard-Margin Support Vector Machine (SVM) Slack Variables Soft-Margin SVM Feature Selection Principal Component Analysis (PCA) Kernel PCA Supervised vs Unsupervised Dimensionality Reduction
7. Kernel Machine 8. Dimensionality	13 14 15 16 17 18	10/04 onday, Oct /Online: N R, 10/06 T, 10/11 R, 10/13 T, 10/18 R, 10/20 T, 10/25 R, 10/27 T, 11/01	 cober 10 @ 7:20 PM - 9:20 PM, covers modules 1-6 (Lect. # 1-12) Monday, October 10, covers modules 1-6 (Lect. # 1-12) Kernel Machines Constrained Optimization with Lagrange Multipliers Kernel Trick Hard-Margin Support Vector Machine (SVM) Slack Variables Soft-Margin SVM Feature Selection Principal Component Analysis (PCA) Kernel PCA Supervised vs Unsupervised Dimensionality Reduction Applications of PCA and LDA
7. Kernel Machine 8. Dimensionality Reduction	13 14 15 16 17 18	10/04 onday, Oct c/Online: N R, 10/06 T, 10/11 R, 10/13 T, 10/18 R, 10/20 T, 10/25 R, 10/27 T,	 cober 10 @ 7:20 PM - 9:20 PM, covers modules 1-6 (Lect. # 1-12) Monday, October 10, covers modules 1-6 (Lect. # 1-12) Kernel Machines Constrained Optimization with Lagrange Multipliers Kernel Trick Hard-Margin Support Vector Machine (SVM) Slack Variables Soft-Margin SVM Feature Selection Principal Component Analysis (PCA) Kernel PCA Supervised vs Unsupervised Dimensionality Reduction Applications of PCA and LDA Multi-Dimensional Scaling (MDS)
7. Kernel Machine 8. Dimensionality Reduction 9. Manifold Learning	13 14 15 16 17 18 19 20 21	10/04 onday, Oct c/Online: N R, 10/06 T, 10/11 R, 10/13 T, 10/18 R, 10/20 T, 10/25 R, 10/27 T, 11/01 R, 11/03	 cober 10 @ 7:20 PM - 9:20 PM, covers modules 1-6 (Lect. # 1-12) Monday, October 10, covers modules 1-6 (Lect. # 1-12) Kernel Machines Constrained Optimization with Lagrange Multipliers Kernel Trick Hard-Margin Support Vector Machine (SVM) Slack Variables Soft-Margin SVM Feature Selection Principal Component Analysis (PCA) Kernel PCA Supervised vs Unsupervised Dimensionality Reduction Applications of PCA and LDA Multi-Dimensional Scaling (MDS) Isometric Feature Mapping (ISOMAP) Locally Linear Embedding (LLE) Brief History of Artificial Neural Networks
7. Kernel Machine 8. Dimensionality Reduction	13 14 15 16 17 18 19 20	10/04 onday, Oct /Online: N R, 10/06 T, 10/11 R, 10/13 T, 10/18 R, 10/20 T, 10/25 R, 10/27 T, 11/01 R,	 Nober 10 @ 7:20 PM - 9:20 PM, covers modules 1-6 (Lect. # 1-12) Monday, October 10, covers modules 1-6 (Lect. # 1-12) Kernel Machines Constrained Optimization with Lagrange Multipliers Kernel Trick Hard-Margin Support Vector Machine (SVM) Slack Variables Soft-Margin SVM Feature Selection Principal Component Analysis (PCA) Kernel PCA Supervised vs Unsupervised Dimensionality Reduction Applications of PCA and LDA Multi-Dimensional Scaling (MDS) Isometric Feature Mapping (ISOMAP) Locally Linear Embedding (LLE)

	23	R,	Backpropagation	
		11/10	 Introduction to Keras with Tensorflow backend (tf.keras) 	
	24	T, 11/15	Best Practices for Training ANNs	
	25	R,	Deep Learning	
	45	11/17	Convolutional Neural Networks	
11. Deep Learning	26	T, 11/22	Tensorflow implementations	
			Thanksgiving break (November 23-26)	
11. Deep Learning	27	T,	Transfer Learning	
		11/29	Implementation and Examples	
	28	R, 12/01	• Final Project Discussion	
	29	T, 12/06	• Final Exam Review	

Final Project: Tuesday, December 6 @ 11:59 PM

Final Exam On-Campus: Wednesday, December 14 @ 5:30 PM - 7:30 PM, covers modules 7-11 (Lect. # 13 - 23)

Final Exam EDGE/Online: Wednesday, December 14 @ 5:30 PM - 7:30 PM, covers modules 7-11 (Lect. #13-23)

Attendance Policy, Class Expectations, and Make-Up Policy

Excused absences must be consistent with university policies in the Graduate Catalog (https://catalog.ufl.edu/graduate/regulations) and require appropriate documentation. Additional information can be found here: https://gradcatalog.ufl.edu/graduate/regulations/

Please carefully read the following 8 topics pertaining to class expectations and make-up policies:

1. Course Communications

General information: (a) The primary means to get help with a problem, other than office hours, will be the Canvas discussion boards. We will check the board daily, to answer inquiries. Other students should feel free to post responses to these questions as well within the guidelines discussed in the sections on collaboration and course etiquette.

- **(b)** Questions about grades or personal issues may be emailed to me at <u>catiaspsilva@ece.ufl.edu</u> or within Canvas. You are welcome to use the telephone (352.392.6502), talk with me during office hours, or set up an appointment.
- **(c)** We have a Slack page for the course: <u>uf-eel5840-fall2022.slack.com</u>. This is an optional resource for students to discuss the course amongst each other and with the Professor. This resource is intended to supplement office hours and student interactions. No official communication/submission happens over Slack. No assignments submissions will be accepted over Slack.

Expectations: if you have an issue or need help, do not wait to ask about it! Problems are generally easier to solve sooner rather than later. You are expected to contribute to the ongoing constructive feedback that is an essential part of the learning process.

2. Attendance Policy

General information: attendance is not required though summative and cumulative assessments, such as practice quizzes, collaborative teamwork, graded exercises, and participation, will happen during synchronous class meetings (including in an online setting, if any).

Expectations: I will prepare course materials with the expectation that students will attend class synchronously and bring a computer to follow along with any practical implementations.

3. Grading Policy

General information: (a) all assignments will have a grading rubric and submissions will be graded based on the assignment's rubric. For maximum credit, students must submit correct and elaborated answers that follow instructions. For assignments that require code, clean, easy to read, easy to run, and well commented Python code is required.

(b) Individual assignments <u>will not</u> be graded on a curve. Final grades course grades <u>will</u> be graded on a curve.

Expectations: I will expect that students will complete all assignments with care, ensure that submissions are complete and illustrate the understanding of the concepts being assessed.

4. Late Work

General information: all submissions are accepted <u>until</u> the assignment solutions are posted but will lose the "ontime" points listed in the rubric.

Expectations: I will expect students to follow all deadlines. In case of conflict, I expect that students will communicate with me and let me know well in advance about any conflicting issues in order to avoid losing the "on-time" points.

5. Make-Up Policy

General information: (a) if you feel that any graded assignment needs to be re-graded, you must discuss this with the instructor within one week of grades being posted for that assignment. If approved, the entire assignment will be subject to complete evaluation.

(b) if you have an academic conflict with any assignment or exam date/time, please let me know well in advance so we can make the necessary changes and make the appropriate accommodations available.

Expectations: I will expect that students will communicate with me and let me know well in advance about any conflicts or time/date change requests.

Excused absences must be consistent with university policies in the undergraduate catalog (https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx) and require appropriate documentation.

6. Collaboration

General information: in solving any individual assignments, healthy discussion and collaboration amongst classmates is encouraged. Healthy collaboration includes: (a) discussing and explaining general course material; (b) discussing assignments for better understanding; (c) aiding for general programming and debugging issues.

Expectations: if another student contributes substantially to your understanding of a problem, you should cite this student to let myself and the teaching assistants be aware of your similar interpretations of a problem. You will not be negatively judged for citing another student.

7. Cheating and Plagiarism

General information: while collaboration is encouraged, you are expected to submit your own work and follow the <u>student honor code</u>. Submitting work completed by another student is considered <u>plagiarism</u> and will be dealt according to university policy. In general, if you do not understand your solution, the work is not your own. Examples of plagiarism include: (a) copying (or allowing someone to copy), even partially, an assignment solution or program from the course; (b) submitting material, particularly code, using material taken from another source without proper citation; (c) obtaining solutions to assignments or exams through inappropriate means. Note that I may elect to use a plagiarism detection service in this course, in which case you will be required to submit your work to such a service as part of your assignment.

Expectations: I expect all students to be bound to the honor pledge as indicated in the <u>student honor code</u>. If you are suspected of dishonest academic activity, I will invite you to discuss it further in private. Academic dishonesty will likely result in grade reduction, with severity depending on the nature of the dishonest activity. I am obligated to report on academic misconduct with a letter to the department, college and/or university leadership. Repeat offences will be treated with significantly greater severity.

8. Course Etiquette

- Be present. This will allow you to get the most out of class time as well as for your classmates to get the most out of their collaborations with you.
- Put your cell phone away unless you are actively using it to further the class activities.
- Be prepared. The readings and videos are carefully chosen to support the in-class activities.
- Listen carefully and do not interrupt others.
- Give quality feedback. What constitutes "quality" will be discussed in class.
- Respect the opinions of others, even when you do not agree.
- Keep an open mind, embrace the opportunity to learn something new.
- Avoid monopolizing the discussion. Give others a chance to contribute and be heard.
- Do not be afraid to revise your ideas as you gather more information.
- Try to look at issues from more than one perspective.
- Respect others by learning and using the name and pronoun they prefer.
- Do not use offensive language.

Evaluation of Grades

Assignment	Total Points	Percentage of Final Grade
Homework	100 each	15%
Participation	5 each	10%
Short assignments	10 each	15%
Midterm Exam	100	20%
Final Exam	100	20%
Final Project	100	20%
		100%

Assignment descriptions:

- **Homework:** will consist of practical and theoretical understanding of the topics covered in class. A typical homework will have two components: Part I consists of a quiz that will access theoretical understanding; Part II consists of practical problem/s to be implemented in Python.
- **Participation:** throughout the course I will ask for participation on a given topic in the form of class discussion boards. Participation points will be awarded for those posts/discussions and participation in class. Instructions on participation points will be discussed in the first lecture. The first participation points are awarded in week 1 and 2, so please keep an eye out for these.
- **Short Assignments:** will consist of exercises for direct application of topics learned in class, it can include code implementation, data analysis or derivations. These assignments have a shorter timeframe for completion than a typical homework.
- **Exams:** the exams will be drawn evenly from all lectures, assignments, and readings that occurred up to that point in the course. The exams will have similar questions to those asked in Part I of homework and short assignments. The final exam does not include content from lectures prior to the midterm, although some concepts are in nature cumulative. You are responsible for all assigned material. A full practice exam(s) will be posted in canvas.
- **Final Project:** The final project is a group assignment. The objective of this project is to implement an end-to-end Machine Learning/Deep Learning model using a data set collected from students in the class. The outcomes of the final project include working code, README file and technical report.

Grading Policy

Percent	Grade	Grade
		Points

93.4 - 100	Α	4.00
90.0 - 93.3	A-	3.67
86.7 - 89.9	B+	3.33
83.4 - 86.6	В	3.00
80.0 - 83.3	B-	2.67
76.7 - 79.9	C+	2.33
73.4 - 76.6	С	2.00
70.0 - 73.3	C-	1.67
66.7 - 69.9	D+	1.33
63.4 - 66.6	D	1.00
60.0 - 63.3	D-	0.67
0 - 59.9	Е	0.00

More information on UF grading policy may be found at: UF Graduate Catalog Grades and Grading Policies

Students Requiring Accommodations

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting https://disability.ufl.edu/students/get-started/. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

Course Evaluation

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via https://ufl.bluera.com/ufl/. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.

In-Class Recording

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A "class lecture" is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session.

Publication without permission of the instructor is prohibited. To "publish" means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

University Honesty Policy

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (https://sccr.dso.ufl.edu/process/student-conduct-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Commitment to a Safe and Inclusive Learning Environment

The Herbert Wertheim College of Engineering values broad diversity within our community and is committed to individual and group empowerment, inclusion, and the elimination of discrimination. It is expected that every person in this class will treat one another with dignity and respect regardless of gender, sexuality, disability, age, socioeconomic status, ethnicity, race, and culture.

If you feel like your performance in class is being impacted by discrimination or harassment of any kind, please contact your instructor or any of the following:

- Your academic advisor or Graduate Program Coordinator
- Jennifer Nappo, Director of Human Resources, 352-392-0904, jpennacc@ufl.edu
- Curtis Taylor, Associate Dean of Student Affairs, 352-392-2177, taylor@eng.ufl.edu
- Toshikazu Nishida, Associate Dean of Academic Affairs, 352-392-0943, nishida@eng.ufl.edu

Software Use

All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

Student Privacy

There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see: https://registrar.ufl.edu/ferpa.html

Campus Resources:

Health and Wellness

U Matter, We Care:

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

Counseling and Wellness Center: https://counseling.ufl.edu, and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Discrimination, Harassment, Assault, or Violence

If you or a friend has been subjected to sexual discrimination, sexual harassment, sexual assault, or violence contact the Office of Title IX Compliance, located at Yon Hall Room 427, 1908 Stadium Road, (352) 273-1094, title-ix@ufl.edu

Sexual Assault Recovery Services (SARS)

Student Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or http://www.police.ufl.edu/.

Academic Resources

E-learning technical support, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. https://lss.at.ufl.edu/help.shtml.

Career Connections Center, Reitz Union, 392-1601. Career assistance and counseling; https://career.ufl.edu.

Library Support, http://cms.uflib.ufl.edu/ask. Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. https://teachingcenter.ufl.edu/.

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. https://writing.ufl.edu/writing-studio/.

Student Complaints Campus: https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/;https://care.dso.ufl.edu.

On-Line Students Complaints: https://distance.ufl.edu/state-authorization-status/#student-complaint.