

## **Automatic feedback Control in Human Biology**

EEL 5934 Section 1234

***Class Periods:*** MWF, period, and corresponding time of day

***Location:*** Classroom location

***Academic Term:*** Spring 2021

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### ***Instructor:***

Name: Jacob Hammer

Email Address: [hammer@mst.ufl.edu](mailto:hammer@mst.ufl.edu)

Office Phone Number: 3523924934

Office Hours: MWF hours available, office location

### ***Teaching Assistant/Peer Mentor/Supervised Teaching Student:***

Please contact through the Canvas website

- Name, email address, office location, office hours
- Name, email address, office location, office hours

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### ***Course Description***

A course about the automatic feedback control principles that govern biological, biochemical, and genetic mechanisms underlying critical processes in human biology. The course concentrates on case studies, including the automatic feedback control principles that regulate vision, balance, heart rate, and various metabolic and immunologic processes in human biology.

### ***Course Pre-Requisites***

-A basic knowledge of biology (BSC 2005 or equivalent)

-Basic knowledge of control theory and linear algebra (EEL 4657C or EEL 4610 or EEL 3135 or equivalent)

-Or instructor consent

### ***Course Objectives***

Introduce students to general principles of automatic control, as they are applied by natural phenomena in human biology.

### ***Materials and Supply Fees***

List if applicable

### ***Required Textbooks and Software: None***

- Title
- Author
- Publication date and edition
- ISBN number

(if course notes derived from various published sources are used, provide information above for each source)

(if course notes are developed by the instructor, so state)

### ***Recommended Materials: None***

- Title
- Author
- Publication date and edition
- ISBN number

### ***Course Schedule***

Week 1: Introduction: basic concepts in automatic feedback control

Week 2: Automatic feedback control mechanisms in biological systems

Week 3: Automatic feedback control of gene expression

Week 4: Biochemical mechanisms of automatic feedback control

Week 5: The eye, Part I: automatic light control: the eye's iris

Week 6: The eye, Part II: automatic focusing of the eye's lens

Week 7: Automatic balancing: standing up

Week 8: Diabetes: a defect in an automatic feedback control loop

Week 9: The beating heart: automatic feedback control of heart rate

Week 10: Wound healing and automatic feedback control of blood coagulation

Week 11: Automatic feedback control of blood acidity and respiration

Week 12: Automatic feedback control and blood pressure regulation

week 13: Automatic feedback control and reflexes: hand on a hot stove

Week 14: Automatic feedback control loops in the immune system

Week 15: Review

### ***Attendance Policy, Class Expectations, and Make-Up Policy***

Attendance not required. Makeups will be provided based on excused absences.

### ***Evaluation of Grades***

**\*\*NOTE:** Course evaluation components should include:

### ***Evaluation of Grades***

<b>Assignment</b>	<b>Total Points</b>	<b>Percentage of Final Grade</b>
Seminar Presentations (1)	100	30%
Midterm Exam	100	30%
Final Exam	100	40%
		100%

### ***Grading Policy***

<b>Percent</b>	<b>Grade</b>	<b>Grade Points</b>
93.4 - 100	A	4.00
90.0 - 93.3	A-	3.67
86.7 - 89.9	B+	3.33
83.4 - 86.6	B	3.00
80.0 - 83.3	B-	2.67
76.7 - 79.9	C+	2.33
73.4 - 76.6	C	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	E	0.00

More information on UF grading policy may be found at: <https://catalog.ufl.edu/graduate/regulations/> (Links to an external site.)

### ***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/> (Links to an external site.). 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/> (Links to an external site.). 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/> (Links to an external site.). Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/> (Links to an external site.).

## **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 Conduct Code (<https://sccr.dso.ufl.edu/process/student-conduct-code/>) (Links to an external site.) specifies a

number of behaviors that are in violation of this code and the possible sanctions. 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](mailto:jpennacc@ufl.edu)
- Curtis Taylor, Associate Dean of Student Affairs, 352-392-2177, [taylor@eng.ufl.edu](mailto:taylor@eng.ufl.edu)
- Toshikazu Nishida, Associate Dean of Academic Affairs, 352-392-0943, [nishida@eng.ufl.edu](mailto: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> (Links to an external site.)

### ***Campus Resources:***

#### ***Health and Wellness***

#### ***Covid-19 Protocols:***

- You are expected to wear approved face coverings at all times during class and within buildings even if you are vaccinated. Please continue to follow healthy habits, including best practices like frequent hand washing. Following these practices is our responsibility as Gators.
- If you are sick, stay home and self-quarantine. Please visit the UF Health Screen, Test & Protect website about next steps, retake the questionnaire and schedule your test for no sooner than 24 hours after your symptoms began. Please call your primary care provider if you are ill and need immediate care or the UF Student Health Care Center at 352-392-1161 (or email [covid@shcc.ufl.edu](mailto:covid@shcc.ufl.edu)) to be evaluated for testing and to receive further instructions about returning to campus. UF Health Screen, Test & Protect offers guidance when you are sick, have been exposed to someone who has tested positive or have tested positive yourself. Visit the [UF Health Screen, Test & Protect website \(Links to an external site.\)](#) for more information.

### **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](mailto: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> (Links to an external site.), 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 \(Links to an external site.\)](#), located at Yon Hall Room 427, 1908 Stadium Road, (352) 273-1094, [title-ix@ufl.edu](mailto: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/> (Links to an external site.).

*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> (Links to an external site.).

**Career Resource Center**, Reitz Union, 392-1601. Career assistance and counseling; <https://career.ufl.edu> (Links to an external site.).

**Library Support**, <http://cms.uflib.ufl.edu/ask> (Links to an external site.). 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/> (Links to an external site.).

**Writing Studio, 302 Tigert Hall**, 846-1138. Help brainstorming, formatting, and writing papers. <https://writing.ufl.edu/writing-studio/> (Links to an external site.).

**Student Complaints Campus:** <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/> (Links to an external site.); <https://care.dso.ufl.edu> (Links to an external site.).

**On-Line Students Complaints:** <http://www.distance.ufl.edu/student-complaint-process> (Links to an external site.).

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**Automatic feedback Control in Human Biology**

**Title of Course**

EEL 4930 Section XXXX

***Class Periods:*** MWF, period, and corresponding time of day

***Location:*** Classroom location

***Academic Term:*** Spring 2021

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***Instructor:***

Name: Jacob Hammer

Email Address: [hammer@mst.ufl.edu](mailto:hammer@mst.ufl.edu)

Office Phone Number: 3523924934

Office Hours: Days of week, hours available, office location MWF 3:50-4:40PM

***Teaching Assistant/Peer Mentor/Supervised Teaching Student:***

Please contact through the Canvas website

- Name, email address, office location, office hours
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***Course Description***

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-Or instructor consent

***Course Objectives***

Introduce students to general principles of automatic control, as they are applied by natural phenomena in human biology.

***Materials and Supply Fees***

List if applicable

***Professional Component (ABET):***

This course consists of 1.5 credits of Basic Science and 1.5 credits of Engineering Science

***Relation to Program Outcomes (ABET):***

The table below is an example. Please consult with your department's ABET coordinator when filling this out.

<b>Outcome</b>	<b>Coverage*</b>
1. an ability to apply knowledge of mathematics, science, and engineering.	Medium
2. an ability to function on multi-disciplinary teams	High
3. the broad education necessary to understand the impact of engineering solutions in global, economic, environmental, and societal context	Medium
4. An ability to communicate effectively with a range of audiences	Medium

\*Coverage is given as high, medium, or low. An empty box indicates that this outcome is not covered or assessed in the course.

***Required Textbooks and Software : None***

- Title
- Author

- Publication date and edition
- ISBN number

(if course notes derived from various published sources are used, provide information above for each source)

(if course notes are developed by the instructor, so state)

***Recommended Materials: None***

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***Course Schedule***

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73.4 - 76.6	C	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
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### *Campus Resources:*

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### Health and Wellness

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- If you are sick, stay home and self-quarantine. Please visit the UF Health Screen, Test & Protect website about next steps, retake the questionnaire and schedule your test for no sooner than 24 hours after your symptoms began. Please call your primary care provider if you are ill and need immediate care or the UF Student Health Care Center at 352-392-1161 (or email [covid@shcc.ufl.edu](mailto:covid@shcc.ufl.edu)) to be evaluated for testing and to receive further instructions about returning to campus. UF Health Screen, Test & Protect offers guidance when you are sick, have been exposed to someone who has tested positive or have tested positive yourself.

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## Course Summary:

Date	Details
Mon Jan 11, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Wed Jan 13, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Fri Jan 15, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Mon Jan 18, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Wed Jan 20, 2021	Calendar Event <a href="#">EEL5934/4930</a>

<b>Date</b>	<b>Details</b>
Fri Jan 22, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Mon Jan 25, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Wed Jan 27, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Fri Jan 29, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Mon Feb 1, 2021	Calendar Event <a href="#">EEL5934/4930</a> Assignment <a href="#">Homework 1</a>
Wed Feb 3, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Fri Feb 5, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Mon Feb 8, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Wed Feb 10, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Fri Feb 12, 2021	Calendar Event <a href="#">EEL5934/4930</a> Assignment <a href="#">Homework 2</a>
Mon Feb 15, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Wed Feb 17, 2021	Calendar Event <a href="#">EEL5934/4930</a> Assignment <a href="#">Homework 3</a>
Fri Feb 19, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Mon Feb 22, 2021	Calendar Event <a href="#">EEL5934/4930</a>

<b>Date</b>	<b>Details</b>
	Assignment <a href="#">Homework 4</a>
Wed Feb 24, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Fri Feb 26, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Mon Mar 1, 2021	Calendar Event <a href="#">EEL5934/4930</a> Assignment <a href="#">Homework 5</a>
Wed Mar 3, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Fri Mar 5, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Mon Mar 8, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Wed Mar 10, 2021	Calendar Event <a href="#">EEL5934/4930</a> Assignment <a href="#">Homework 6</a>
Fri Mar 12, 2021	Calendar Event <a href="#">EEL5934/4930</a> Assignment <a href="#">Midterm Exam</a>
Mon Mar 15, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Wed Mar 17, 2021	Calendar Event <a href="#">EEL5934/4930</a> Assignment <a href="#">Homework 7</a>
Fri Mar 19, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Mon Mar 22, 2021	Calendar Event <a href="#">EEL5934/4930</a>

Date	Details
Wed Mar 24, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Fri Mar 26, 2021	Calendar Event <a href="#">EEL5934/4930</a>
	Assignment <a href="#">Homework 8</a>
Mon Mar 29, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Wed Mar 31, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Fri Apr 2, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Mon Apr 5, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Wed Apr 7, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Fri Apr 9, 2021	Calendar Event <a href="#">EEL5934/4930</a>
	Assignment <a href="#">Homework 9</a>
Mon Apr 12, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Wed Apr 14, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Fri Apr 16, 2021	Calendar Event <a href="#">EEL5934/4930</a>
Mon Apr 19, 2021	Calendar Event <a href="#">EEL5934/4930</a>
	Assignment <a href="#">Homework 10</a>
Fri Apr 23, 2021	Calendar Event <a href="#">University of Florida GatorEvals – Spring 2021</a>
	Calendar Event <a href="#">University of Florida GatorEvals – Spring 2021</a>

Date	Details
	Calendar Event <a href="#">University of Florida GatorEvals – Spring 2021</a>
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Thu Apr 28, 2022	Assignment <a href="#">final Exam</a>
	Assignment <a href="#">Letter grade</a>
	Assignment <a href="#">Sample Quiz</a>

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