Cover Sheet: Request 15671

EIN 4XXXC – Workplace Ergonomics and Biomechanics

Info

| Process | Course New Ugrad/Pro |
|----------------|---|
| Status | Pending at PV - University Curriculum Committee (UCC) |
| Submitter | Serdar Kirli kirli@ise.ufl.edu |
| Created | 1/8/2021 11:12:10 PM |
| Updated | 3/9/2021 7:32:51 AM |
| Description of | New course request |
| request | |

Actions

| Step | Status | Group | User | Comment | Updated |
|--|--------------------------|--|----------------|---|-----------|
| Department | Approved | ENG - Industrial and Systems Engineering 19060000 | David Kaber | I have reviewed and approve this new course request. | 1/11/2021 |
| | | Biomechanics.pdf | | | 1/11/2021 |
| College | Approved | ENG - College of Engineering | Heidi Dublin | Approved by the HWCOE Curriculum Committee and Faculty Council. | 2/11/2021 |
| No document of | hanges | | | | |
| University Curriculum Committee | Conditionall Approved | PV - University Curriculum Committee (UCC) | Casey Griffith | Pending updates discussed in February UCC. | 2/19/2021 |
| No document o | hanges | | | | |
| College | Approved | ENG - College of Engineering | Heidi Dublin | Apply updates discussed at February UCC meeting. | 3/1/2021 |
| No document of | hanges | | | | |
| Department | Approved | ENG - Industrial and Systems Engineering 19060000 | Casey Griffith | | 3/8/2021 |
| WP Ergo & Bio | | | | | 3/8/2021 |
| College | Approved | ENG - College of Engineering | Heidi Dublin | | 3/9/2021 |
| No document of | | | | | |
| University Curriculum Committee | Pending | PV - University Curriculum Committee (UCC) | | | 3/9/2021 |
| No document c | hanges | | | | |
| Statewide Course Numbering System | | | | | |
| No document c | hanges | | | | |
| Office of the Registrar | | | | | |
| No document o | nanges | | | | |
| Student Academic Support System | | | | | |
| No document c | hanges | | | | |
| Catalog | | | | | |

| Step | Status | Group | User | Comment | Updated |
|---------------------|--------|-------|------|---------|---------|
| No document of | hanges | | | | |
| College Notified | | | | | |
| Notified | | | | | |
| No document changes | | | | | |

Course|New for request 15671

Info

Request: EIN 4XXXC – Workplace Ergonomics and Biomechanics

Description of request: New course request **Submitter:** Serdar Kirli kirli@ise.ufl.edu

Created: 1/8/2021 10:36:50 PM

Form version: 1

Responses

Recommended Prefix

Enter the three letter code indicating placement of course within the discipline (e.g., POS, ATR, ENC). Note that for new course proposals, the State Common Numbering System (SCNS) may assign a different prefix.

Response:

EIN

Course Level

Select the one digit code preceding the course number that indicates the course level at which the course is taught (e.g., 1=freshman, 2=sophomore, etc.).

Response:

4

Course Number

Enter the three digit code indicating the specific content of the course based on the SCNS taxonomy and course equivalency profiles. For new course requests, this may be XXX until SCNS assigns an appropriate number.

Response:

XXX

Category of Instruction

Indicate whether the course is introductory, intermediate or advanced. Introductory courses are those that require no prerequisites and are general in nature. Intermediate courses require some prior preparation in a related area. Advanced courses require specific competencies or knowledge relevant to the topic prior to enrollment.

Response:

Advanced

- 1000 level = Introductory undergraduate
- 2000 level = Introductory undergraduate
- 3000 level = Intermediate undergraduate
- 4000 level = Advanced undergraduate
- 5000 level = Introductory graduate
- 6000 level = Intermediate graduate
- 7000 level = Advanced graduate
- 4000/5000= Joint undergraduate/graduate
- 4000/6000= Joint undergraduate/graduate

^{*}Joint undergraduate/graduate courses must be approved by the UCC and the Graduate Council)

Lab Code Enter the lab code to indicate whether the course is lecture only (None), lab only (L), or a combined lecture and lab (C). Response: C

Course Title

Enter the title of the course as it should appear in the Academic Catalog. There is a 100 character limit for course titles.

Response:

Workplace Ergonomics and Biomechanics

Transcript Title

Enter the title that will appear in the transcript and the schedule of courses. Note that this must be limited to 30 characters (including spaces and punctuation).

Response:

Workplace Ergo & Biomechanics

Degree Type

Select the type of degree program for which this course is intended.

Response: Baccalaureate

Delivery Method(s)

Indicate all platforms through which the course is currently planned to be delivered.

Response: On-Campus

Co-Listing

Will this course be jointly taught to undergraduate, graduate, and/or professional students?

Response:

No

Effective Term

Select the requested term that the course will first be offered. Selecting "Earliest" will allow the course to be active in the earliest term after SCNS approval. If a specific term and year are selected, this should reflect the department's best projection. Courses cannot be implemented retroactively, and therefore the actual effective term cannot be prior to SCNS approval, which must be obtained prior to the first day of classes for the effective term. SCNS approval typically requires 2 to 6 weeks after approval of the course at UF.

| Effective Year Select the requested year that the course will first be offered. See preceding item for further information. |
|---|
| Response: 2021 |
| Rotating Topic? Select "Yes" if the course can have rotating (varying) topics. These course titles can vary by topic in the Schedule of Courses. |
| Response: No |
| Repeatable Credit? Select "Yes" if the course may be repeated for credit. If the course will also have rotating topics, be sure to ndicate this in the question above. |
| Response: No |
| Amount of Credit Select the number of credits awarded to the student upon successful completion, or select "Variable" if the course will be offered with variable credit and then indicate the minimum and maximum credits per section. Note that credit hours are regulated by Rule 6A-10.033, FAC. If you select "Variable" for the amount of credit, additional fields will appear in which to indicate the minimum and maximum number of total credits. |
| Response: 3 |
| S/U Only? Select "Yes" if all students should be graded as S/U in the course. Note that each course must be entered into the UF curriculum inventory as either letter-graded or S/U. A course may not have both options. However, letter-graded courses allow students to take the course S/U with instructor permission. |
| Response: No |
| Contact Type Select the best option to describe course contact type. This selection determines whether base hours or needcount hours will be used to determine the total contact hours per credit hour. Note that the headcount hour options are for courses that involve contact between the student and the professor on an individual basis. |
| Response: |

Response: Fall

Regularly Scheduled

- Regularly Scheduled [base hr]
- Thesis/Dissertation Supervision [1.0 headcount hr]
- Directed Individual Studies [0.5 headcount hr]
- Supervision of Student Interns [0.8 headcount hr]
- Supervision of Teaching/Research [0.5 headcount hr]
- Supervision of Cooperative Education [0.8 headcount hr]

Contact the Office of Institutional Planning and Research (352-392-0456) with questions regarding contact type.

Weekly Contact Hours

Indicate the number of hours instructors will have contact with students each week on average throughout the duration of the course.

Response:

3

Course Description

Provide a brief narrative description of the course content. This description will be published in the Academic Catalog and is limited to 500 characters or less. See course description guidelines.

Response:

Covers advanced topics on human factors and usability concepts and methods including prototyping and design, usability testing, design of experiments, forensics, and systems design applied to typical human factors domains such as IT, healthcare, transportation, and command and control.

Prerequisites

Indicate all requirements that must be satisfied prior to enrollment in the course. Prerequisites will be automatically checked for each student attempting to register for the course. The prerequisite will be published in the Academic Catalog and must be formulated so that it can be enforced in the registration system. Please note that upper division courses (i.e., intermediate or advanced level of instruction) must have proper prerequisites to target the appropriate audience for the course.

Courses level 3000 and above must have a prerequisite.

Please verify that any prerequisite courses listed are active courses.

Response:

EIN3241(C) & EGM2511(C)

Completing Prerequisites on UCC forms:

- Use "&" and "or" to conjoin multiple requirements; do not used commas, semicolons, etc.
- Use parentheses to specify groupings in multiple requirements.
- Specifying a course prerequisite (without specifying a grade) assumes the required passing grade is D-. In order to specify a different grade, include the grade in parentheses immediately after the course number. For example, "MAC 2311(B)" indicates that students are required to obtain a grade of B in Calculus I. MAC2311 by itself would only require a grade of D-.
- Specify all majors or minors included (if all majors in a college are acceptable the college code is sufficient).
- "Permission of department" is always an option so it should not be included in any prerequisite or co-requisite.
- If the course prerequisite should list a specific major and/or minor, please provide the plan code for that major/minor (e.g., undergraduate Chemistry major = CHY_BS, undergraduate Disabilities in Society minor = DIS_UMN)

Example: A grade of C in HSC 3502, passing grades in HSC 3057 or HSC 4558, and undergraduate PBH student should be written as follows: HSC 3502(C) & (HSC 3057 or HSC 4558) & UGPBH

Co-requisites

Indicate all requirements that must be taken concurrently with the course. Co-requisites are not checked by the registration system. If there are none please enter N/A.

Response:

N/A

Rationale and Placement in Curriculum

Explain the rationale for offering the course and its place in the curriculum.

Response:

This request is in conjunction with a major curriculum revision request being reviewed by the UCC.

This course will be one of the restricted electives within the Human Systems Engineering focus area in the revised curriculum (effective fall 2021).

Course Objectives

Describe the core knowledge and skills that student should derive from the course. The objectives should be both observable and measurable.

Response:

At the conclusion of this course, students will be able to:

- Demonstrate the relevance and importance of human factors and ergonomics in our society and in industry
- Improve their awareness of ergonomic issues in everyday things and actions and in physical work
- · Recognize and identify workplace physical ergonomics problems
- Apply the basic concepts, tools and methods to solve human factors and ergonomics problems

Course Textbook(s) and/or Other Assigned Reading

Enter the title, author(s) and publication date of textbooks and/or readings that will be assigned. Please provide specific examples to evaluate the course and identify required textbooks.

Response:

Required

- Occupational Biomechanics, by Don B. Chaffin, Gunnar B.J. Andersson, and Bernard J. Martin, ISBN-10: 0471723436
- · Supplemental readings will be provided.

Weekly Schedule of Topics

Provide a projected weekly schedule of topics. This should have sufficient detail to evaluate how the course would meet current curricular needs and the extent to which it overlaps with existing courses at UF.

Response:

Week Topic Assignments

1 Course Introduction, Course Organization and Overview

Ergonomic Problems and Key Concepts

- 2 The Structure and Function of the Musculoskeletal System
- Connective tissue, skeletal muscle, joints HW 1 due
- 3 Anthropometry in Occupational Ergonomics and Biomechanics
- Measurement of physical properties of body segments
- · Anthropometric data for ergonomics studies in industry HW 2 due
- 4 Mechanical Work Capacity Evaluation
- · Joint motion
- 5 Mechanical Work Capacity Evaluation
- Muscle strength evaluation Lab 1: muscle strength assessment
- 6 Bioinstrumentation for Occupational Biomechanics and Ergonomics Part 1
- Human motion analysis systems
- Muscle activity measurement HW 3 due
- 7 Bioinstrumentation for Occupational Biomechanics and Ergonomics Part 2
- Fore platform system Mid-term Exam
- 8 Occupational Biotechnical Models (2D models)
- Single-body-segment static model
- Two-body-segment Static model
- Planar static analysis of internal forces
- 9 Occupational Biotechnical Models (2D models)
- Introduction to dynamic biomechanical models and special purpose biomechanical models
- Future developments in occupational biomechanical models HW 4 due
- 10 Methods of Classifying and Evaluating Manual Work
- REBA, RULA, NIOSH lifting equation, SNOOKE table, etc.
- 11 Manual Material Handling Limits
- · Lifting limits in MMH
- Pushing/Pulling capabilities HW 5 due
- 12 Manual Material Handling Limits
- Asymmetric load handling Lab 2: MMH risk assessment
- 13 Guidelines for Work in Sitting Postures and Common Issues in Office Ergo
- · The spine and sitting
- The shoulder and sitting
- · The legs and sitting
- The sitting workplace (chair, table, etc.)
- 14 Guidelines for Workplace Vibration
- Whole-body vibration
- Hand-arm vibration
- · Sensorimotor effects
- Vibration exposure criteria HW 6 due
- 15 Emerging Issues and Methods
- · Collaborative robots
- Al and Industrial 4.0

Grading Scheme

List the types of assessments, assignments and other activities that will be used to determine the course grade, and the percentage contribution from each. This list should have sufficient detail to evaluate the course rigor and grade integrity. Include details about the grading rubric and percentage breakdowns for determining grades. If participation and/or attendance are part of the students grade, please provide a rubric or details regarding how those items will be assessed.

Response:

Assignment Total Points Percentage of Final Grade In class quizzes and HW assignments 100 25%

Two lab sessions 100 25% Mid-term Exam 100 25%

Final Exam 100 25% Total 100%

Labs

For this course, you will have two group labs. The first lab's focus is on assessing human muscle

strength using EMG technique. The second project's focus is on analyzing a physical task using motion studies and objective tools. These labs will encourage you to demonstrate your knowledge of the concepts learned in the classroom, as well as enhance your experimentation skills.

Quizzes

All quizzes will be pop quizzes, students need to physically attend the lecture.

Exams

Exams will be closed book with 1 page of cheat sheet (double sided) allowed.

Instructor(s)

Enter the name of the planned instructor or instructors, or "to be determined" if instructors are not yet identified.

Response:

Boyi Hu

Attendance & Make-up

Please confirm that you have read and understand the University of Florida Attendance policy.

A required statement statement related to class attendance, make-up exams and other work will be included in the syllabus and adhered to in the course. Courses may not have any policies which conflict with the University of Florida policy. The following statement may be used directly in the syllabus.

• Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx

Response:

Yes

Accomodations

Please confirm that you have read and understand the University of Florida Accommodations policy. A statement related to accommodations for students with disabilities will be included in the syllabus and adhered to in the course. The following statement may be used directly in the syllabus:

• Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Response:

Yes

UF Grading Policies for assigning Grade Points

Please confirm that you have read and understand the University of Florida Grading policies. Information on current UF grading policies for assigning grade points is require to be included in the course syllabus. The following link may be used directly in the syllabus:

• https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

| Response: | |
|-----------|--|
| Yes | |

Course Evaluation Policy

Course Evaluation Policy

Please confirm that you have read and understand the University of Florida Course Evaluation Policy. A statement related to course evaluations will be included in the syllabus. The following statement may be used directly in the syllabus:

• 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/public-results/. 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 <a href="https://gatorevals.aa.ufl.edu/public-results/.<a href="https://gatorevals.aa.ufl.edu/public-results/https://gatorevals.aa.ufl.edu/public-results/https://gatorevals.aa.ufl.edu/public-results/<a href="https://gatorevals.aa.uf

Response:

Yes

Workplace Ergonomics and Biomechanics

EIN 4XXXC

Class Periods and Location: MWF 3rd period Academic Term: Fall 2021

Instructor: Dr. Boyi Hu, boyihu@ise.ufl.edu, 487 Weil Hall, office hour (TBD)

Teaching Assistants:

TDB

Course Description

Overview of ergonomics and occupational biomechanics. Course covers pathophysiology and risk factors of upper extremity and back musculoskeletal disorders, biomechanics of spine and upper extremity loading at work, measurement of force and posture, models for risk assessment, anthropometry applied to task and workstation design, tool design, and structure of successful ergonomics programs. Students will learn detailed job analysis and ergonomics workplace intervention.

Course Pre-Requisite

EIN3241 (Human Factors and Ergonomics I), EGM2511 (Statics)

Relation to Program Outcomes (ABET):

| Outcome | Coverage* |
|--|-----------|
| 1. Identify, formulate, and solve engineering problems | High |
| 2. Apply engineering design consideration of public health, safety, and welfare as well as global, cultural, social, environmental, and economic factors | Medium |
| 3. Communicate effectively with a range of audiences | Medium |
| 4. Recognize ethical and professional responsibilities impact of engineering solutions in global, economic, environmental, and societal contexts | |
| 5. Function effectively on a team provide leadership, create a collaborative and inclusive environment | |
| 6. Develop and conduct appropriate experimentation, analyze, and interpret data | High |
| 7. Ability to acquire and apply new knowledge as needed | |

^{*}Coverage is given as high, medium, or low. An empty box indicates that this outcome is not part of the course.

Course Objectives

At the conclusion of this course, students will be able to:

- Demonstrate the relevance and importance of human factors and ergonomics in our society and in industry
- Improve their awareness of ergonomic issues in everyday things and actions and in physical work
- Recognize and identify workplace physical ergonomics problems
- Apply the basic concepts, tools and methods to solve human factors and ergonomics problems

Required Textbooks and Software

- Occupational Biomechanics, by Don B. Chaffin, Gunnar B.J. Andersson, and Bernard J. Martin, ISBN-10: 0471723436
- Supplemental readings will be provided.

Course Schedule

| Week | Торіс | Assignments |
|------|--|---------------------|
| 1 | Course Introduction, Course Organization and Overview | |
| | Ergonomic Problems and Key Concepts | |
| 2 | The Structure and Function of the Musculoskeletal System | HW 1 due |
| 2 | Connective tissue, skeletal muscle, joints | |
| | Anthropometry in Occupational Ergonomics and Biomechanics | HW 2 due |
| 3 | Measurement of physical properties of body segments | |
| | Anthropometric data for ergonomics studies in industry | |
| 4 | Mechanical Work Capacity Evaluation | |
| 4 | Joint motion | |
| _ | Mechanical Work Capacity Evaluation | Lab 1: muscle |
| 5 | Muscle strength evaluation | strength assessment |
| | Bioinstrumentation for Occupational Biomechanics and Ergonomics – Part 1 | HW 3 due |
| 6 | Human motion analysis systems | |
| | Muscle activity measurement | |
| _ | Bioinstrumentation for Occupational Biomechanics and Ergonomics – Part 2 | Mid-term Exam |
| 7 | Fore platform system | |
| | Occupational Biotechnical Models (2D models) | |
| | Single-body-segment static model | |
| 8 | Two-body-segment Static model | |
| | Planar static analysis of internal forces | |
| | Occupational Biotechnical Models (2D models) | HW 4 due |
| | Introduction to dynamic biomechanical models and special purpose | |
| 9 | biomechanical models | |
| | Future developments in occupational biomechanical models | |
| | Methods of Classifying and Evaluating Manual Work | |
| 10 | REBA, RULA, NIOSH lifting equation, SNOOKE table, etc. | |
| | Manual Material Handling Limits | HW 5 due |
| 11 | Lifting limits in MMH | |
| | Pushing/Pulling capabilities | |
| | Manual Material Handling Limits | Lab 2: MMH risk |
| 12 | Asymmetric load handling | assessment |
| | Guidelines for Work in Sitting Postures and Common Issues in Office Ergo | |
| | The spine and sitting | |
| 13 | The shoulder and sitting | |
| | The legs and sitting | |
| | The sitting workplace (chair, table, etc.) | |
| | | |

| | Guidelines for Workplace Vibration | HW 6 due |
|----|------------------------------------|----------|
| 14 | Whole-body vibration | |
| | Hand-arm vibration | |
| | Sensorimotor effects | |
| | Vibration exposure criteria | |
| | Emerging Issues and Methods | |
| 15 | Collaborative robots | |
| | Al and Industrial 4.0 | |
| | | |

Evaluation of Grades

| Assignment | Total Points | Percentage of Final Grade |
|-------------------------------------|--------------|---------------------------|
| In class quizzes and HW assignments | 100 | 25% |
| Two lab sessions | 100 | 25% |
| Mid-term Exam | 100 | 25% |
| Final Exam | 100 | 25% |
| Total | | 100% |

Labs

For this course, you will have two group labs. The first lab's focus is on assessing human muscle strength using EMG technique. The second project's focus is on analyzing a physical task using motion studies and objective tools. These labs will encourage you to demonstrate your knowledge of the concepts learned in the classroom, as well as enhance your experimentation skills.

Quizzes

All quizzes will be pop quizzes, students need to physically attend the lecture.

Exams

Exams will be closed book with 1 page of cheat sheet (double sided) allowed.

Grading Policy

| Percent | Grade | Grade |
|--------------|-------|--------|
| | | Points |
| 90.0 - 100.0 | Α | 4.00 |
| 87.0 - 89.9 | A- | 3.67 |
| 84.0 - 86.9 | B+ | 3.33 |
| 81.0 - 83.9 | В | 3.00 |
| 78.0 - 80.9 | B- | 2.67 |
| 75.0 - 77.9 | C+ | 2.33 |
| 72.0 - 74.9 | С | 2.00 |
| 69.0 - 71.9 | C- | 1.67 |
| 66.0 - 68.9 | D+ | 1.33 |
| 63.0 - 65.9 | D | 1.00 |
| 60.0 - 62.9 | D- | 0.67 |
| 0 - 59.9 | Е | 0.00 |

More information on UF grading policy may be found at:

https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/

Attendance Policy and Make-up Policy

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx

Students Requiring Accommodations

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, https://www.dso.ufl.edu/drc) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure 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/.

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/policies/student-honor-code-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.

- Your academic advisor or Undergraduate Program Coordinator
- Robin Bielling, Director of Human Resources, 352-392-0903, rbielling@eng.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@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: http://www.counseling.ufl.edu/cwc, 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 Resource Center, Reitz Union, 392-1601. Career assistance and counseling. https://www.crc.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://care.dso.ufl.edu.

On-Line Students Complaints: http://www.distance.ufl.edu/student-complaint-process.

| | Low | Average | High |
|------------------------|-------------------------|------------------------|-----------------------|
| Overall writing | 1) less than 3 | 1) 3-7 references | 1) more than 8 |
| completeness and | reference papers are | papers with at least 3 | papers are cited; 2) |
| relevant literature | cited; 2) reference | within the recent 5 | readability is |
| coverage (20%) | papers are too old | years; 2) some | excellent |
| | and outdated; 3) | grammar errors, but | |
| | grammar mistakes | the overall | |
| | throughout the | readability is | |
| | report, the | acceptable; 3) no | |
| | readability if | obvious structural | |
| | problematic | problem | |
| correctness of data | 1) the experimental | 1) the description of | 1) no technical issue |
| collection procedure | protocol is not clearly | experimental design | is observed; 2) lap |
| description (40%) | described in the | is not complete; 2) | report includes clear |
| | report; 2) the | the operation of lab | and complete |
| | experimental | equipment does not | experimental design |
| | protocol does not | fully follow the lab | |
| | follow the lab guide | guide | |
| quality of data | 1) the figures/tables | 1) there are no | 1) visualization |
| visualization and data | are poorly designed | essential data | elements are |
| processing (40%) | or missing | missing but the | carefully designed |
| | | readability of | |
| | | figures/tables are | |
| | | problematic | |