


| | | | |
|---|---|---|--|
|  FLORIDA ATLANTIC UNIVERSITY | NEW COURSE PROPOSAL Undergraduate Programs | | UUPC Approval _____ UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner Posted _____ Catalog _____ |
| | Department College <i>(To obtain a course number, contact erudolph@fau.edu)</i> | | |
| Prefix Number | <i>(L = Lab Course; C = Combined Lecture/Lab; add if appropriate)</i> Lab Code | Type of Course | Course Title |
| Credits <i>(Review Provost Memorandum)</i> | Grading <i>(Select One Option)</i> Regular Pass/Fail Sat/UnSat | Course Description <i>(Syllabus must be attached; Syllabus Checklist recommended; see Guidelines)</i> | |
| Effective Date <i>(TERM & YEAR)</i> | | | |
| Prerequisites, with minimum grade* | | Corequisites | Registration Controls <i>(Major, College, Level)</i> |
| *Default minimum passing grade is D-. Prereqs., Coreqs. & Reg. Controls are enforced for all sections of course | | | |
| WAC/Gordon Rule Course Yes No <i>WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to proposal. See WAC Guidelines.</i> | | Intellectual Foundations Program (General Education) Requirement <i>(Select One Option)</i> <i>General Education criteria must be indicated in the syllabus and approval attached to the proposal. See GE Guidelines.</i> | |
| Minimum qualifications to teach course | | | |
| Faculty Contact/Email/Phone | | List/Attach comments from departments affected by new course | |
| Approved by Department Chair <u>Wendy Anastafous</u> College Curriculum Chair <u>John D. [Signature]</u> College Dean _____ UUPC Chair <u>Jerry Haky (via email confirmation)</u> Undergraduate Studies Dean <u>Edward Pratt (via email confirmation)</u> UFS President _____ Provost _____ | | | Date February 4, 2020 <u>3/10/2020</u> <u>3-27-20</u> <u>3-30-20</u> <u>3-31-20</u> _____ _____ |

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

CCJ 3071: Artificial Intelligence for Social Good

College for Design & Social Inquiry
School of Criminology & Criminal Justice
<<Semester>>
<<Day, time, location>>

Instructor: Dr. Wendy P. Guastaferrro, Associate Professor

Office Location: Social Science Building, Room 210

Office Hours: << >>

Phone Number: 561.297.0428

Email: wguastaferrro@fau.edu **Skype:** wendy.guastaferrro

COURSE DESCRIPTION

In this course students will learn about the social implications of artificial intelligence, data science and big data, strategies to ensure AI systems are accountable to the communities and contexts they are meant to serve, and applied in ways that promote justice and equity.

COURSE OBJECTIVES

Upon successful completion of this course, students will be able to:

- 1) Identify societal challenges that can potentially be tackled by AI methods, and determine which AI methods can be applied
- 2) Describe the AI methods covered in the course, including the basic concepts, the key algorithms, and the commonly-used implementation of the methods
- 3) Describe evaluation criteria and methodologies of applying AI methods for social good
- 4) Deliver written and oral presentation on research projects or research survey

COURSE DELIVERY MODE

This is a hybrid course. We will meet in-person some weeks and online a couple of other weeks. Please see the schedule below. All work, including short discussion-related assignments, will be submitted via Canvas.

We will meet according to the schedule set by the University. Materials for the course are accessible through FAU's learning management system, Canvas. You must log into Canvas with your FAU ID and Password to access the materials and assignments in this course. If you do not know your FAU ID or Password, [contact OIT for help](#).

The course is organized into modules with due dates. Please complete the readings and assignments prior to coming to class. The course begins with the START HERE page, which will familiarize you with the organization and navigation of the course. You will open a new learning module to access the assigned reading materials, videos, presentations, and other relevant materials for each subsequent module.

TIME COMMITMENT PER CREDIT HOUR

This course has 3 credit hours. 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 is 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.

REQUIRED TEXTS & MATERIALS

All materials are free, open-sourced, and publicly available.

Book:

Global Information Society Watch (GISW). (2019). *Artificial intelligence: Human rights, social justice and development*. Association for Progressive Communications (APC). **Available for download @** https://giswatch.org/sites/default/files/gisw2019_artificial_intelligence.pdf

Other readings and links to other resources are provided in the syllabus, through the FAU library, or in the modules in Canvas.

HARDWARE & SOFTWARE REQUIREMENT

Hardware

- Dependable computer
- Computer speakers
- Headset with microphone
- Webcam

Software

- [Microsoft 365 Suite](#)
- Reliable web browser (recommended [Chrome](#) or [Firefox](#))
- Canvas mobile app: Download instructions for [iOS device](#) or [Android device](#)
- [Adobe Reader](#)
- [Adobe Flash Player](#)

Internet Connection

- Recommended: Broadband Internet connection with a speed of 4 Mbps or higher.
- To function properly, Canvas requires a high-speed Internet connection (cable modem, DSL, satellite broadband, T1, etc.). The minimum Internet connection speed to access Canvas is a consistent 1.5 Mbps (megabits per second) or higher. ● [Check your Internet speed here.](#)

COMPUTER REQUIREMENTS

Basic Computer Specifications for Canvas

- Operating system: Windows 10 or macOS Sierra (or higher). ● [Specifications](#)

Peripherals

- A backup option should be available to minimize the loss of work. This can be an external hard drive, a USB drive, cloud storage, or your folder on the FAU servers.

Software

- Once logged in to Canvas make sure your Internet browser is compatible.

- Other software may be required for specific learning modules. If so, the necessary links to download and install will be provided within the applicable module.

MINIMUM TECHNICAL SKILLS REQUIREMENTS

The general and course-specific technical skills you must have to succeed in the course include but are not limited to:

- Accessing Internet.
- Using Canvas (including taking tests, attaching documents, etc.).
- Using email with attachments.
- Creating and submitting files in commonly used word processing program formats such as Microsoft Office Tools. ● Copying and pasting functions.
- Downloading and installing software.
- Using presentation, graphics, and other programs.
- Posting and commenting in an online discussion.
- Searching the FAU library and websites.

TECHNICAL SUPPORT

In the online environment, technical issues are always possible (e.g., lost connection, hardware or software failure). Many of these can be resolved relatively quickly, but if you wait until the last minute before due dates, the chances of these glitches affecting your success are greatly increased. Please plan appropriately. If a problem occurs, it is essential you take immediate action to document the issue so your instructor can verify and take appropriate action to resolve the problem. Most issues in Canvas can be resolved by clicking on the “Help” tab located on the menu bar.

When a problem occurs, click “Help” to:

- Report a Problem
- Live Chat with Canvas Support
- Search Canvas Guides

Additional Technical Support

1. If you can, make a Print Screen of the monitor when the problem occurs. Save the Print Screen as a .jpg file. If you are unfamiliar with creating a Print Screen file, see [Print Screen instructions](#).

2. Complete a [Help Desk ticket](#). Make sure you complete the form entirely and give a full description of your problem so the Help Desk staff will have the pertinent information in order to assist you properly. This includes:
 - a. Select “Canvas (Student)” for the Ticket Type.
 - b. Input the Course ID.
 - c. In the Summary/ Additional Details section, include your operating system, Internet browser, and Internet service provider (ISP).
 - d. Attach the Print Screen file, if available.
3. Send a message within Canvas to your instructor to notify him/her of the problem. Include all pertinent information of the incident (2b-d above).
4. If you do not have access to Canvas, send an email to your instructor with all pertinent information of the incident (2b-d above).
5. If you do not have access to a computer, call your instructor with all pertinent information of the incident. If he/she is not available, make sure you leave a detailed message.
6. If you do not hear back from the Help Desk or your instructor within a timely manner (48 hours), it is your responsibility to follow up with the appropriate person until you obtain a resolution.

COURSE ASSESSMENTS, ASSIGNMENTS & GRADING POLICY

Student Engagement

Student engagement occurs when each student attends class and is prepared to thoughtfully discuss weekly questions and raise relevant issues and connections between readings, discussion, and assignments.

Video Introduction, 10 points. Students will record a video introduction & post in Canvas.

Attendance, 45 points. This class only meets once per week. Three classes are online sessions. Attendance is required every week. Each student is allowed ONE excused absence. Each subsequent absence will result in a 3 point deduction from your attendance grade.

The excused absence policy is as follows:

Students cannot be penalized for absences due to participation in University-approved activities, including athletic or scholastics teams, musical and theatrical performances, and debate activities. Instructors must allow these students to make up missed work without any reduction in the student’s final course grade. Reasonable accommodation will be made for students participating in a religious observance. Reasonable accommodation will be made for students who are hospitalized or

prevented by a doctor from attending class. Students will be required to submit documentation in support of any of these reasons.

Weekly Participation, 100 points. Students are expected to participate in each class. Ask questions. Offer your assessment of the course materials. React to questions or comments from the professor or your classmates. If you miss a class you will not be able to earn participation points for that class, regardless of the reason you are absent.

OTHER ASSIGNMENTS

Brief reflection and discussion post assignments, 50 points. Five brief reflection and/or homework assignments will be given throughout the semester.

Quizzes, 10 quizzes, 10 points each. There will be weekly quizzes based on the readings and course materials. Good answers will demonstrate that you have read and understood the material, and actively participated in classroom discussions. Make-up exams are given in exceptional circumstances only.

Infographic Assignment, Presentation & Peer Review, 145 points. Students will create an infographic about a topic related to AI & Social Good, give a presentation on their infographic, and peer-review their classmates' infographics.

| Assessment | Points (450 possible) |
|---|----------------------------------|
| Student engagement (attendance and participation) | 145 |
| Reflection & discussion post assignments (5 @ 10 points each) | 50 |
| Quizzes (10 quizzes) | 100 |
| Video introduction | 10 |
| Infographic preparation assignment | 30 |
| Infographic presentation w. infographic | 100 |
| Peer evaluation of infographics | 15 |

Grade Scale:

| Grade | Average of total points earned / 500 |
|--------------|---|
| A | 100 – 94 |
| A- | 93 – 90 |
| B+ | 89 – 87 |
| B | 86 – 83 |
| B- | 82 – 80 |
| C+ | 79 – 77 |
| C | 76 – 73 |
| C- | 72 – 70 |
| D+ | 69 – 67 |
| D | 66 – 63 |
| D- | 62 – 60 |
| F | 59 – 0 |

LATE ASSIGNMENTS POLICY

Assignments should be turned in on time. If you are going to miss an assignment deadline, please email me as soon as possible and request an extension. Extensions are granted at the discretion of the professor. Whether there will be a point deduction for late submissions is at the discretion of the professor.

Students cannot be penalized for absences due to participation in University-approved activities, including athletic or scholastics teams, musical and theatrical performances, and debate activities. Instructors must allow these students to make up missed work without any reduction in the student's final course grade. Reasonable accommodation will be made for students participating in a religious observance. Students will be required to submit documentation in support of any of these reasons.

INCOMPLETE GRADE POLICY

The University policy states that a student who is passing a course but has not completed all work **due to exceptional circumstances**, may, with consent of the instructor, temporarily receive a grade of incomplete ("I"). The assignment of the "I" grade is at the discretion of the professor but is allowed only if the student is passing the course.

COURSE POLICIES

CODE OF ACADEMIC INTEGRITY POLICY STATEMENT

Students at Florida Atlantic University should endeavor to maintain the highest ethical standards. Academic dishonesty is 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 to 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](#).

PLAGIARISM

[Plagiarism](#) is unacceptable in the University community. Academic work must be an original work of your own thought, research, or self-expression. When students borrow ideas, wording, or organization from another source, they must acknowledge that fact in an appropriate manner. Plagiarism is the deliberate use and appropriation of another's work without identifying the source and trying to pass off such work as one's own. Any student who fails to give full credit for ideas or materials taken from another has plagiarized. This includes all discussion board posts, journal entries, wikis, and other written and oral presentation assignments. If in doubt, cite your source.

NETIQUETTE

Due to the casual communication common in the online environment, **including in emails**, students are sometimes tempted to relax their grammar, spelling, and/or professionalism. Please remember that you are adult students and professionals—your communication should be appropriate. For more in-depth information, please see the [FAU statement on netiquette](#).

CLASSROOM ETIQUETTE/DISRUPTIVE BEHAVIOR POLICY STATEMENT

Disruptive behavior is defined in the FAU Student Code of Conduct as "... activities which interfere with the educational mission within classroom." Students who disrupt the educational experiences of other students and/or the instructor's course objectives in a face-to-face or online course are subject to disciplinary action. Such behavior impedes students' ability to learn or an instructor's ability to teach. Disruptive behavior may include, but is not limited to non-approved use of electronic devices (including cellular telephones); cursing or shouting at others in such a way as to be disruptive; or, other violations of an instructor's expectations for classroom conduct.

For more information, please see the [FAU Office of Student Conduct](#).

COMMUNICATION POLICY

EXPECTATIONS FOR STUDENTS

Announcements

You are responsible for reading all announcements posted by the instructor. Check your FAU email regularly and the course announcements each time you log in.

INSTRUCTOR'S PLAN FOR CLASSROOM RESPONSE TIME & FEEDBACK

Email/Course-Related Questions Policy

Except for weekends and holidays, the professor will typically respond to email (Canvas inbox or FAU email) within 48 hours. If you have questions of a personal nature, you should email the professor. While I have a scheduled hour to meet (4:30-5:30 on Mondays), I am available for appointments that are amenable to both of our schedules.

Assignment Feedback Policy

The instructor will provide feedback on submitted assignments within two weeks of the submission date. Some assignments may require a longer review period, which the professor will communicate to you.

Electronic Communication Policy

In addition to the University's policy, please consider the following:

- Privacy, confidentiality, and security in all electronic communications.
- All electronic communication resources must be used for the course and in alignment with to the University mission.
- Prohibited use of false identity, false identity pseudonyms, or anonymous (sender's name or electronic identification is hidden).
- Access without consent.
- Disruption of services including introducing computer contaminants (viruses).
- Harassment of any kind.

Please see the Office of Information Technology's policies on [Cyber Security Awareness](#).

SUPPORT SERVICES & ONLINE RESOURCES

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>.

Other resources:

- [Center for eLearning and Student Success](#)
- [FAU Libraries](#)
- [Freshmen Academic Advising Services](#)
- [Math Learning Center](#)
- [Office of Information Technology Helpdesk](#)
- [Office of International Programs and Study Abroad](#)
- [Office of Undergraduate Research and Inquiry](#)
- [Student Accessibility Services](#)
- [University Center for Excellence in Writing](#)

FACULTY RIGHTS & 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*.

SELECTED UNIVERSITY & COLLEGE POLICIES

ACCESSIBILITY 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/.

Contact

- **Boca Raton:** (561) 297-3880 Fax:
(561) 297-2184, TTY: 711

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.

[Chapter 4 of the University Regulations](#) contains information on the grade appeals process.

RELIGIOUS ACCOMMODATION POLICY STATEMENT

In accordance with 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 with regard to admissions, registration, class attendance, and the scheduling of examinations and work assignments. For further information, please see [Academic Policies and Regulations](#).

UNIVERSITY APPROVED ABSENCE POLICY STATEMENT

In accordance with rules of the Florida Atlantic University, students have the right to reasonable accommodations to participate in University approved activities, including athletic or scholastics teams, musical and theatrical performances and debate activities. It is your responsibility to notify the instructor at least one week prior to missing any course assignment.

DROPS/WITHDRAWALS

You are responsible for completing the process of dropping or withdrawing from a course. Please click on the following link for more information on dropping and/or withdrawing from a course. Please consult the [FAU Registrar Office](#) for more information.

* * *

The instructor reserves the right to adjust this syllabus as necessary.

CCJ 4934 Artificial Intelligence for Social Good

Lesson Content

**Readings are on Canvas, @ links below, or in course textbook
& should be completed before class.**

| Module # | Date | Module Topic | |
|----------|-------------------------------|--|---|
| 1 | 2 classes per module | <p>Introduction to course</p> <p>AI & Social Good, the framework for our course</p> | <p>Google, Accelerating social good with artificial intelligence: Insights from the Google AI Impact Challenge.</p> <p>McKinsey Global Institute. (Dec, 2018). Notes from the AI frontier: Applying AI for social good.</p> <p>Shamas, N. (2020). The many lives of our sexy data bodies. Medium.</p> <p>United Nation's Sustainable Development Goals: https://www.un.org/sustainabledevelopment/</p> |
| 2 | | Ethics & AI | <p>Suleyman, Mustafa. (2018). AI offers a unique opportunity for social progress but it will only do good if it is held to the highest ethical standards. <i>The Economist</i>.</p> <p>Bertram, T. et al. (2019). The right to be forgotten. From 2019 ACM SIGSAC Conference on Computer and Communications Security (CCS '19), November 11–15, 2019, London, United Kingdom.</p> <p>Gabriel, I. (2020). Artificial Intelligence, Human Values, and Alignment. White paper from Deep Mind.</p> |
| 3 | | <p>Government & AI (governance that empowers people, strong institutions, strong partnerships, public policy)</p> | <p>GISW, p.5-19; 37-45</p> <p>Aggarwal, C.C. & Abdelzaher, T. (2019). Social Sensing. Managing & Mining Sensor Data.</p> |
| | | | |

| Module # | Date | Module Topic | Lesson Content |
|----------|------|--|---|
| 4 | | Criminal Justice & AI (policing, facial recognition, | <p>GISW, p.24-27.</p> <p>Hutson, M. (2020). The trouble with crime statistics. <i>The New Yorker</i>.</p> <p>Richardson, R., Schultz, J.M., Crawford, K. (2019). Dirty data, bad predictions: How civil rights violations impact police data, predictive policing systems, and justice. <i>New York University Law Review</i>.</p> <p>GISW Country & Regional Reports (These are 3-4 pages each): Introduction, Africa, Argentina, Australia (1 & 2), Bangladesh, Benin, Brazil, Cameroon</p> |
| 5 | | Environment & AI (life below water, life on land, clean water & sanitation, climate, energy, sustainable cities) | <p>GISW Country & Regional Reports: Canada, The Caribbean, Chile, China, Colombia, Democratic Republic of Congo, Costa Rica, Ecuador</p> |
| 6 | | Economics & AI (poverty, industry, responsible consumption, decent work, economic growth, industry innovation) | <p>Sambasivan, N. (2019). The remarkable illusions of technology for social good. <i>Interactions Magazine</i>.</p> <p>GISW Country & Regional Reports: Ethiopia, The Gambia, Germany, India, Italy</p> |

| | | | |
|---|--|--|--|
| | | | |
| 7 | | Well-being, health & AI (hunger, education, health, housing) | GISW , p.20-23; 47-54. Sleeper, M. et al. (2019). Tough Times at Transitional Homeless Shelters: Considering the Impact of Financial Insecurity on Digital Security and Privacy. CHI Conferenc on Human Factors in Computing Systems Proceedings (CHI 2019), May 4–9, 2019, Glasgow, Scotland UK. ACM, New York. GISW Country & Regional Reports: Jamaica, Kenya, the Republic of Korea, Latin America, Malawi, New Zealand, Pakistan, Panama, Peru, Poland, Russia, Rwanda |
| 8 | | Social Justice & AI (reducing inequalities, poverty, gender, civil rights) | GISW , p. 28-32 GISW Country & Regional Reports: Serbia, Seychelles, South Africa, Thailand, Tunisia, Turkey, Uganda, Ukraine, Venezuela |

- In a 15-week semester, one of these modules will have to be 1 class rather than 2 classes.