

 FLORIDA ATLANTIC UNIVERSITY	COURSE CHANGE REQUEST Undergraduate Programs	UUPC Approval <u>1-31-22</u> UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner Posted _____ Catalog _____
	Department _____ College _____	
Current Course Prefix and Number		Current Course Title
<i>Syllabus must be attached for ANY changes to current course details. See Template. Please consult and list departments that may be affected by the changes; attach documentation.</i>		
Change title to: Change prefix From: _____ To: _____ Change course number From: _____ To: _____ Change credits* From: _____ To: _____ Change grading From: _____ To: _____ Change WAC/Gordon Rule status** Add _____ Remove _____ Change General Education Requirements*** Add _____ Remove _____ <small>*Review Provost Memorandum</small> <small>**WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to this form. See WAC Guidelines.</small> <small>***General Education criteria must be indicated in syllabus and approval attached to this form. See GE Guidelines.</small>		Change description to: Change prerequisites/minimum grades to: Change corequisites to: Change registration controls to: Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade (default is D-).
Effective Term/Year for Changes:		Terminate course? Effective Term/Year for Termination:
Faculty Contact/Email/Phone		
Approved by Department Chair <u>Monica Escaleras</u> College Curriculum Chair <u>Ethlyn Williams</u> College Dean <u>Paul Han</u> UUPC Chair <u>Ethlyn Williams</u> Undergraduate Studies Dean <u>Daniel Meeroff</u> UFS President _____ Provost _____		Date <u>12/21/2021</u> <u>1/19/2022</u> <u>1/31/2022</u> <u>1-31-22</u> <u>1-31-22</u> _____ _____

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

ECO 4402 001 12323

Game Theory

WF 11 – 12:30pm
3 credits

Spring 2021

Prof. Suman Ghosh

Office: KH 106

Office Hours: By Appointment (Email)

Telephone: 561-297-2948

Email: sgghosh@fau.edu



TA name	Calvin Rastin
Telephone	561-901-5730
Email	crastin2015@fau.edu

Course Description

How does one outsmart their competitors? Game theory studies strategic decision making when multiple players each act in their own interests. This course introduces the core concepts of game theory including sequential-move and simultaneous-move games and Nash equilibrium. Real-life applications of game theory are found in business competition, politics, law, military strategy, sports, and gaming. Students will develop a new perspective on approaching strategic decisions encountered every day.

INSTRUCTIONAL METHOD

As of now it is an online class. Videos of material will be made available through Canvas and all communications will be conducted through Canvas and email.

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 some material due dates. The course begins with the Start Here module, 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.

COVID-19 Statement

All students in face-to-face classes are required to wear masks during class, and students must sanitize their own workstations upon entering the classroom. Taking these measures supports the safety and protection of the FAU community. Students who do not adhere to these rules will be asked to leave the classroom and/or be removed from the course. Students experiencing flu-like symptoms (fever, cough, shortness of breath), or students who have come in contact with an infected person should immediately contact FAU Student Health Services (561-297-3512).

PREREQUISITES

3 credit hours

Prereq: ECO 2023, or equivalent

COURSE OBJECTIVES/STUDENT LEARNING OUTCOMES

This course will cover topics introducing students to the basic concepts of Money and Banking so that it lays a foundation from which further advanced topics can be dealt.

COURSE EVALUATION METHOD

There will be 3 Mid Term Examinations and a Final. The course grade will be based on the following percentages:

Final – 40%

Mid Term I– 20%

Mid Term II- 20%

Mid Term III- 20%

Exams will be taken online in the Canvas Learning Management System with the use of Respondus and Lockdown browser. ***It is your responsibility to make sure that the Respondus and Lockdown Browser features can be used in your browser.***

COURSE GRADING SCALE

- 1) 90+ - A
- 2) 85-89- A-
- 3) 80-84 – B+
- 4) 75-79- B
- 5) 70-74 –B-
- 6) 65-69 – C+
- 7) 62-64 – C
- 8) 59-61 – C-
- 9) 55-58 – D+
- 10)52-54 – D
- 11)50-51 – D-

SPECIAL COURSE REQUIREMENTS

Hardware & Software Requirements

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.](#)

Other Technologies

Exams in this class will be conducted online. ***It is your responsibility to make sure that the Respondus and Lockdown Browser features can be used in your browser.*** In particular, Usage of these features are limited in a Chromebook.

See the “Technical Support” section of the syllabus for additional details and help.

COMPUTER REQUIREMENTS

Basic Computer Specifications for Canvas

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

POLICY ON MAKEUP TESTS, LATE WORK, AND INCOMPLETES (IF APPLICABLE)

If you cannot attend any exam then you should inform me at least 7 days before. After that I will take a decision as to whether a particular reason for missing an exam is valid or not. If you miss any exam due to illness then your case should be accompanied by a proper medical certificate.

ONLINE ATTENDANCE POLICY

Since the course is online, you should access the course **at least three times per week** to ensure you do not miss pertinent postings, messages, or announcements. It is imperative that you meet course deadlines and stay active in discussion boards, group projects, etc. If you are experiencing major illness, absences due to University duties, or other large-scale issues, contact the instructor immediately to formulate a resolution.

COUNSELING AND PSYCHOLOGICAL SERVICES (CAPS) CENTER

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

DISABILITY POLICY

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

CODE OF ACADEMIC INTEGRITY

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

personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

[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.

COMMUNICATION POLICY

EXPECTATIONS FOR STUDENTS

Announcements

You are responsible for reading all announcements posted by the instructor. Check the course announcements each time you log in.

Email/Video Conferencing

You are responsible for reading all your course email and responding in a timely manner.

Course-Related Questions

Please ask course related questions in the FAQ discussion board. Either the instructor or a teaching assistant will respond to your question.

INSTRUCTOR'S PLAN FOR CLASSROOM RESPONSE TIME & FEEDBACK

Email/Video Conferencing Policy

Except for weekends and holidays, I will typically respond to email (Canvas inbox or FAU email) within 48 hours. You should ask course-related questions in the FAQ discussion board. If you have questions of a personal nature, you should email the instructor.

Assignment Feedback Policy

The instructor will provide feedback on submitted assignments within one week of the submission date. This course has online problem sets, so in almost all cases feedback is instant.

Course-Related Questions Policy

Except weekends and holidays, the instructor will generally answer questions within 48 hours.

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](#).

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*.

REQUIRED TEXTS/READINGS

Games of Strategy (4th Edition)-Norton.
By Dixit, Skeath and Reiley.

COURSE TOPICAL OUTLINE

Include a breakdown of topics covered (generally, by class day or by week), deadlines for course assignments/requirements, and dates of exams, quizzes, papers, and completion of readings. The *Provost's Policy and Procedure: Definitions of a Credit Hour* needs to be followed in developing out-of-class assignments.

Course Schedule:

January 13: Introduction

January 15: Chapter 3- Games *with* Sequential Moves.

January 20: Chapter 4- Simultaneous Move Games with Pure Strategy-Discrete Strategies.

January 22: Chapter 4- Simultaneous Move Games with Pure Strategy-Discrete Strategies.

January 27: Chapter 5- Simultaneous Move Games with Pure Strategy-Continuous Strategies.

January 29: Chapter 5- Simultaneous Move Games with Pure Strategy-Continuous Strategies.

February 3: Mid Term 1

February 5: Chapter 6- Combining Sequential and Simultaneous Moves.

February 10: Chapter 6- Combining Sequential and Simultaneous Moves.

February 12: Chapter 7- Simultaneous Form Games with Mixed Strategies.

February 17: Chapter 7- Simultaneous Form Games with Mixed Strategies.

February 19: Chapter 8- Uncertainty and Information.

February 24: Chapter 8- Uncertainty and Information.

February 26: Chapter 9- Strategic Moves.

March 3: Revision

March 5: Mid Term 2

March 10: Chapter 10- The Prisoner's Dilemma and Repeated Games.

March 12: Chapter 10- The Prisoner's Dilemma and Repeated Games.

March 17: Chapter 11: Collective Action Games

March 19: Chapter 11: Collective Action Games

March 24: Chapter 13: Mechanism Design

March 26: Revision

March 31: Mid Term 3

April 2: Chapter 13: Mechanism Design

April 7: Chapter 15: Brinkmanship: The Cuban Missile Crisis

April 9: Chapter 15: Brinkmanship: The Cuban Missile Crisis

April 14: Chapter 15: Brinkmanship: The Cuban Missile Crisis

April 16: Revision

April 28: Final

SELECTED UNIVERSITY & COLLEGE POLICIES

ACCESSIBILITY POLICY STATEMENT

In compliance with the Americans with Disabilities Act (ADA), students who require special accommodations to properly execute coursework due to a disability, must register with Student Accessibility Services (SAS) located in the Boca Raton, Davie, and Jupiter campuses and follow all SAS procedures. For additional information, please consult [Student Accessibility Services](#).

Contact

- **Boca Raton:** (561) 297-3880
Fax: (561) 297-2184, TTY: 711
- **Davie:** (954) 236-1222
Fax: (954) 236-1123, TTY: 711
- **Jupiter:** (561) 799-8721
Fax: (561) 799-8721, 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 regarding 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.

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