# Cover Sheet: Request 12854

**ABE 4XXX Modeling Coupled Natural-Human Systems**

## Info

<table>
<thead>
<tr>
<th>Process</th>
<th>Course</th>
<th>New</th>
<th>Ugrad/Pro</th>
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</thead>
<tbody>
<tr>
<td>Status</td>
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<tr>
<td>Submitter</td>
<td>Rachata Muneepeerakul <a href="mailto:rmuneepe@ufl.edu">rmuneepe@ufl.edu</a></td>
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<tr>
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<tr>
<td>Updated</td>
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</table>

**Description of request**

To request a permanent number for the course

## Actions

<table>
<thead>
<tr>
<th>Step</th>
<th>Status</th>
<th>Group</th>
<th>User</th>
<th>Comment</th>
<th>Updated</th>
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</thead>
<tbody>
<tr>
<td>Department</td>
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<td>ENG - Agricultural and Biological Engineering 514907000</td>
<td>Rafael Munoz-Carpena</td>
<td></td>
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<td>Conditionally Approved</td>
<td>ENG - College of Engineering</td>
<td>Heidi Dublin</td>
<td>Conditionally Approved-- Course description in the form and syllabus are different. They must be the same. The one in the syllabus is too long. States there are no makeups for quizzes. Makeup are required for excused absences. The UF policy cannot be modified with “Additionally”</td>
<td>9/18/2018</td>
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<td>Heidi Dublin</td>
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Course|New for request 12854

Info
Request: ABE 4XXX Modeling Coupled Natural-Human Systems
Description of request: To request a permanent number for the course
Submitter: Rachata Muneepeerakul rmuneepe@ufl.edu
Created: 9/19/2018 10:55:55 AM
Form version: 2

Responses
Recommended Prefix ABE
Course Level 4
Number XXX
Category of Instruction Joint (Ugrad/Grad)
Lab Code None
Course Title Modeling Coupled Natural-Human Systems
Transcript Title MODELING NAT-HUM SYS
Degree Type Baccalaureate

Delivery Method(s) On-Campus
Co-Listing Yes
Co-Listing Explanation Students enrolled in the graduate session will be given additional, more advanced problems in both homework assignments and midterm exam.
Effective Term Earliest Available
Effective Year Earliest Available
Rotating Topic? No
Repeatable Credit? No

Amount of Credit 3

S/U Only? No
Contact Type Regularly Scheduled
Weekly Contact Hours 3
Course Description Approaches to modeling coupled natural-human systems are explored, drawing from both natural and social sciences. Topics include regime shift from dynamical systems and basic concepts from game theory and social-ecological system literature. These are combined in models that operationalize a conceptual framework. Students develop models—with guidance—for final projects.
Prerequisites Basic calculus & college-level probability courses
Co-requisites N/A
Rationale and Placement in Curriculum Many important engineering problems involves both biophysical and social factors. Effective analysis must draw from both natural and social sciences. This course prepares the students to tackle these problems by introducing them to concepts and tools from natural and social sciences and teaching them how to integrate these elements into models that can be used to study systems of their interest.
Course Objectives Upon completion of this course, students will be able to:
- Perform stability analysis and construct a bifurcation diagram for simple dynamical systems.
- Articulate the nature of regime shifts or tipping points in the context of coupled natural-human systems.
- Make connections between concepts such as resilience and robustness to their mathematical basis.
- Identify the applicability and limitations of different modeling approaches to coupled natural-human systems.
- Develop a simple model for a coupled natural-human system and analyze it, using tools learned in this course. This is what you are expected to do in your final project.

Course Textbook(s) and/or Other Assigned Reading No textbooks are required. Some example readings include:


Weekly Schedule of Topics

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<th>Week</th>
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Links and Policies

Grades and Grade Points
For information on current UF policies for assigning grade points, see https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

Attendance and Make-Up Work
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Online Course Evaluation Process
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Academic Honesty
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It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not
be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: http://www.dso.ufl.edu/scscr/process/student-conduct-honor-code.

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.

Services for Students with Disabilities
The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

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- University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575,
  www.counseling.ufl.edu/cwc/
- Counseling Services
- Groups and Workshops
- Outreach and Consultation
- Self-Help Library
- Wellness Coaching
- Career Resource Center, First Floor JWRU, 392-1601, www.crc.ufl.edu/

Grading Scheme
Assessment and Evaluation:
Assignments: 45%  |  Midterm Exam: 25%  |  In-class Quizzes: 5%  |  Final Project: 25%
Your final score will be rounded to the nearest integer—for example, 86.5 will be rounded to 87—and your final grade will be determined accordingly to the scale below.
91-100 = A  |  86-90 = A-  |  81-85 = B+  |  76-80 = B  |  71-75 = B-  |  66-70 = C+  |  61-65 = C  |  51-60 = D  |  0-50 = E

Instructor(s) Rachata Muneepeerakul
ABE4XXX: Modeling Coupled Natural-Human Systems

Spring 20XX, 3 Credit hours

Time & Location: M 9:35-10:25AM & W 8:30-10:25AM, Frazier Rogers 283

Pre-requisites: Basic calculus and college-level probability courses

Instructor: Rachata Muneepeerakul, PhD
             rmuneepe@ufl.edu; Phone: (352) 392-1864 Ext. 227
             Frazier Rogers Hall 227
             Office Hours: TBD and by appointments

Graduate Teaching Assistants (email, office hours and location): N/A

Course Description

Approaches to modeling coupled natural-human systems are explored, drawing from both natural and social sciences. Topics include regime shift from dynamical systems and basic concepts from game theory and social-ecological system literature. These are combined in models that operationalize a conceptual framework. Students develop models—with guidance—for final projects.

Learning Objectives:

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

- Perform stability analysis and construct a bifurcation diagram for simple dynamical systems.
- Articulate the nature of regime shifts or tipping points in the context of coupled natural-human systems.
- Make connections between concepts such as resilience and robustness to their mathematical basis.
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Assignments

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** The number of assignments and their topics are tentative; the actual number and topics would depend on progress and interest of class. The assignments are usually due 1 to 1.5 weeks after the date they are assigned.
Sample Readings:
No textbooks are required. The materials for this course will be drawn from several sources. Below are some examples (we would likely not cover all of them):

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**Notes on the graduate section:** Students enrolled in the graduate section will be given additional, more advanced problems in both homework assignments and midterm exam.

**Learning Objectives:**

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

- Perform stability analysis, construct a bifurcation diagram, and determine critical parameter values for dynamical systems.
- Articulate the nature of regime shifts or tipping points in the context of coupled natural-human systems.
- Make connections between concepts such as resilience and robustness to their mathematical basis.
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Memo of one or more relevant papers |
| 2    | Stability analysis, regime shift, and bifurcation of a replicator equation  
Memo of one or more relevant papers |
| 3    | Stability analysis, regime shift, and bifurcation of a 2-D dynamical system  
Memo of one or more relevant papers |
| 4    | Analysis of a CNH model  
Memo of one or more relevant papers |

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It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: http://www.dso.ufl.edu/scsr/process/student-conduct-honor-code.

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.

Services for Students with Disabilities

The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

0001 Reid Hall, 352-392-8565, www.dso.ufl.edu/dro/
Campus Helping Resources

Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university’s counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575, www.counseling.ufl.edu/cwc/
- Counseling Services
- Groups and Workshops
- Outreach and Consultation
- Self-Help Library
- Wellness Coaching

- Career Resource Center, First Floor JWRU, 392-1601, www.crc.ufl.edu/