

Advanced Academic Programs
Zanvyl Krieger School of Arts and Sciences

Johns Hopkins University

Course Syllabus

Sustainability Science: Concepts and Challenges
AS.420.612.81.SP18

Instructor Information

Instructor: Jennifer da Rosa
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Office Hours: online (or in person / on phone by appointment)

Contacting the Instructor:

The fastest way to reach me will always be via JHU email at jdarosa@jhu.edu. I will typically respond to you within 24 hours. Also, you can reach out to me in the **Ask Your Professor** discussion forum (keep in mind everyone can see this, so personal and grade-related concerns should be conducted through email). You can also email me to request a phone conversation or an Adobe Connect session too.

Course Description

Sustainability Science is an interdisciplinary field engaged with understanding the dynamics between natural and social systems and how those interactions challenge the notion of sustainability. This course will start by reviewing the history of the concept of sustainability and will then consider how it has been applied in the environmental sciences. Specifically, the goal of the course is to provide a comprehensive, multidisciplinary perspective on this emerging field, understanding its theory, research horizons, and practical applications. Concepts to be reviewed include socio-environmental systems, complex adaptive systems, cross-scalar impacts, tipping points and regime shifts, vulnerability, resilience and adaptive capacity, equity, sustainable development, political ecology, governance, capital assets and livelihoods. In a seminar context this course will consider these and other concepts from a theoretical perspective but will focus on their application in solving real-world problems.

Prerequisites: 420.301 - Quantitative Methods
420.302 - Chemistry of Natural Processes

Course Goals

By the end of this course, you will be able to:

1. Identify and explain the theoretical and conceptual framework on which sustainability science is based
2. Analyze environmental problems using the framework of sustainability

3. Apply a systems perspective to the investigation of complex sustainable and unsustainable issues
4. Evaluate the influences and feedbacks between human development and natural systems
5. Reframe capacious environmental problems within opposing cultural worldviews
6. Critically read, analyze, and synthesize academic literature related to sustainability science
7. Construct a logical argument based on a systematic review of sustainability literature

Course Materials

Required Textbook

de Vries, Bert J. M. (2013). *Sustainability Science*. (5th edition). Cambridge University Press. ISBN 978-0-521-18470-0.

*You can purchase this new or used.

Recommended Supplies

APA Manual. Extensive reading and writing are essential practices to expand your geology knowledge and hone your ability to formulate a sound argument. I insist on the use of APA style for all papers and discussion posts. While there are a few good internet resources, nothing is as up-to-date and as accurate as the APA Publication Manual, a resource you will undoubtedly refer to throughout your graduate education.

American Psychological Association. (2010). *Publication Manual of the American Psychological Association*. (6th edition). ISBN 978-1-4338-0561-5

Citation Software. Because you will be reading and citing books and scholarly work throughout graduate school, it is strongly recommended that you use a citation manager such as EndNote, RefWorks, or Mendeley. Several of these programs have a free option and a feature to cite-as-you-write, instantly formatting sources in your word-processing software.

Other Readings

Other readings will be posted in the online classroom with support from JHU reserves (EReserves or (ARES)).

Other equipment/software/websites/online resources

STELLA Professional modeling software 6-month student license. Directions for purchase and download are posted in Blackboard.

Specific Technology Requirements & Skills for this Course

Learning online requires some basic knowledge of computer technology. At a minimum, you need to be able to:

- Navigate in and use Blackboard; the Blackboard Student Orientation course on your “My Institution” page
- Create and save MS Word documents; see [MS Word training and tutorials](#) for PC users (all versions); [Word Help](#) for Mac users
- Create, save, and utilize Excel spreadsheet functions for basic statistical analysis (or another spreadsheet such as Google Sheets or Apple Numbers); see [Excel training and tutorials](#) for PC users (all versions); [Excel Help](#) for Mac users
- Find basic resources on the Internet
- Create and organize files & folders on your computer
- Send, receive, and manage email

About Your Course

Course Structure

Course topics were chosen to give you significant exposure to the science of sustainability. Each week you will be introduced to the content topic with textbook readings that provide a necessary overview of the subject. Complementing this will be several scholarly articles representing original research in sustainability, case studies, and seminal works. Videos and simulations are coupled with hands-on tasks to reinforce and develop your understanding of sustainability as a scientific endeavor. Weekly quizzes are used to assess your conceptual understanding of the topic, and discussion activities and weekly VoiceThread vlogs are designed to support your learning through social interactions and dialogue with classmates. Systems exercises will give you experience modeling and analyzing data using STELLA, a systems modeling software. Finally, you will have an opportunity to dig deeper into a topic of interest with the Annotated Bibliography and the Literature Review assignment; both of which will be shared with the class towards the end of the semester.

Course Topics

This course runs from 01/08/2018 to 04/29/2018. Our “weeks” will run from Monday to Sunday.

- Week 1: What is Sustainability Science?
- Week 2: Learning from the Past
- Week 3: The Great Acceleration
- Week 4: System Dynamics and the Study of Sustainability
- Week 5: Framework for Sustainability
- Week 6: Worldviews & Quality of Life
- Week 7: Energy Essentials
- Week 8: Land & Nature
- Week 9: Humans: Population Growth & Behavior
- Week 10: Agricultural and Food Systems
- Week 11: Renewable Resources & Sustainable Harvest
- Week 12: Non-Renewable Resources & Industry
- Week 13: Sustainable Economy
- Week 14: A Sustainable Future?
- Week 15: Finals Week

Directions for Students

Next Steps: Carefully review the remaining sections of the syllabus before beginning the

Week 1 activities, which are located in the **Lessons** folder in your online course.

- Once you feel that you are ready to dive into the first week's activities, click on the **Lessons** button on the left-side navigation menu. Then, click on **Week 1** to begin with the Introduction and Objectives.

What To Expect in this Course

This course is 15 weeks in length and includes individual, group, and whole group activities in a weekly cycle of instruction. Each week begins on a Monday and ends on the following Sunday. Please review the course syllabus thoroughly to learn about specific course outcomes and requirements.

Each week, you will complete readings that may include videos, multimedia presentations, web-based resources, and articles from professional journals. A reading may be integrated within an activity during the week or provide some key information to assist your learning.

In this course, you will also experience online learning activities, which include discussion boards, modeling exercises, case studies, group work, and online multimedia presentations.

Be sure to refer to the **Checklist** each week (at the end of each lesson), which provides a week-at-a-glance and shows targeted dates for the completion of activities.

Assessments and Grading Policy

Assignments

Each assignment will be assigned a numerical value out of 10 points. Your final grade is calculated as a weighted average of the total number of points (see below for details). Specific due dates will be located in lesson folders and the course schedule.

Assignments	Due Dates	Points Possible
Assignment 1: VoiceThread Reflection Vlog <i>Students will sign up for a week based on topics. Deliverables: A 5-10 minute VoiceThread vlog based on a given prompt for classmates to respond to. Vlog is due in VoiceThread on Thursday of the week the student signed up for.</i>	varies	10
Assignment 2: Week 1 Discussion Forum <i>Based on readings, lectures, and activities. Deliverables: A primary post for each discussion prompt and secondary posts in response to others.</i>	1/11 (primary posts) 1/14 (secondary posts)	10
Assignment 3: Week 1 Quiz <i>Based on lecture and course readings. Deliverables: Answers submitted through the online classroom.</i>	1/14	10
Assignment 4: Week 2 Discussion Forum <i>Based on readings, lectures, and activities. Deliverables: A primary post for each discussion</i>	1/18 (primary posts) 1/21 (secondary posts)	10

<p><i>prompt and secondary posts in response to others (this includes a secondary post in the weekly VT Reflection Vlog as well).</i></p>		
<p>Assignment 5: Week 2 Quiz <i>Based on lecture and course readings. Deliverables: Answers submitted through the online classroom.</i></p>	1/21	10
<p>Assignment 6: Week 3 Discussion Forum <i>Based on readings, lectures, and activities. Deliverables: A primary post for each discussion prompt and secondary posts in response to others (this includes a secondary post in the weekly VT Reflection Vlog as well).</i></p>	1/25 (primary posts) 1/28 (secondary posts)	10
<p>Assignment 7: Week 3 Quiz <i>Based on lecture and course readings. Deliverables: Answers submitted through the online classroom.</i></p>	1/28	10
<p>Assignment 8: Week 4 Discussion Forum <i>Based on readings, lectures, and activities. Deliverables: A primary post for each discussion prompt and secondary posts in response to others (this includes a secondary post in the weekly VT Reflection Vlog as well).</i></p>	2/1 (primary posts) 2/4 (secondary posts)	10
<p>Assignment 9: Week 4 Quiz <i>Based on lecture and course readings. Deliverables: Answers submitted through the online classroom.</i></p>	2/4	10
<p>Assignment 10: Systems Exercise 1 <i>The student will use Stella Professional to create systems models and analyze data related to sustainability. Deliverables: Files submitted through online classroom.</i></p>	2/4	10
<p>Assignment 11: Week 5 Discussion Forum <i>Based on readings, lectures, and activities. Deliverables: A primary post for each discussion prompt and secondary posts in response to others (this includes a secondary post in the weekly VT Reflection Vlog as well).</i></p>	2/8 (primary posts) 2/11 (secondary posts)	10
<p>Assignment 12: Week 5 Quiz <i>Based on lecture and course readings. Deliverables: Answers submitted through the online classroom.</i></p>	2/11	10
<p>Assignment 13: Week 6 Discussion Forum <i>Based on readings, lectures, and activities. Deliverables: A primary post for each discussion prompt and secondary posts in response to others</i></p>	2/15 (primary posts) 2/18 (secondary posts)	10

<i>(this includes a secondary post in the weekly VT Reflection Vlog as well).</i>		
Assignment 14: Week 6 Quiz <i>Based on lecture and course readings. Deliverables: Answers submitted through the online classroom.</i>	2/18	10
Assignment 15: Week 7 Discussion Forum <i>Based on readings, lectures, and activities. Deliverables: A primary post for each discussion prompt and secondary posts in response to others (this includes a secondary post in the weekly VT Reflection Vlog as well).</i>	2/22 (primary posts) 2/25 (secondary posts)	10
Assignment 16: Week 7 Quiz <i>Based on lecture and course readings. Deliverables: Answers submitted through the online classroom.</i>	2/25	10
Assignment 17: Systems Exercise 2 <i>The student will use Stella Professional to create systems models and analyze data related to sustainability. Deliverables: Files submitted through online classroom.</i>	2/25	10
Assignment 18: Week 8 Discussion Forum <i>Based on readings, lectures, and activities. Deliverables: A primary post for each discussion prompt and secondary posts in response to others (this includes a secondary post in the weekly VT Reflection Vlog as well).</i>	3/1 (primary posts) 3/4 (secondary posts)	10
Assignment 19: Week 8 Quiz <i>Based on lecture and course readings. Deliverables: Answers submitted through the online classroom.</i>	3/4	10
Assignment 20: Week 9 Discussion Forum <i>Based on readings, lectures, and activities. Deliverables: A primary post for each discussion prompt and secondary posts in response to others (this includes a secondary post in the weekly VT Reflection Vlog as well).</i>	3/8 (primary posts) 3/11 (secondary posts)	10
Assignment 21: Week 9 Quiz <i>Based on lecture and course readings. Deliverables: Answers submitted through the online classroom.</i>	3/11	10
Assignment 22: Annotated Bibliography <i>The student will compile and analyze selected empirical articles related to sustainability science. Deliverables: Bibliography will be submitted via Turnitin.</i>	3/11 (Turnitin)	10

<p>Assignment 23: Week 10 Discussion Forum <i>Based on readings, lectures, and activities.</i> <i>Deliverables: A primary post for each discussion prompt and secondary posts in response to others (this includes a secondary post in the weekly VT Reflection Vlog as well).</i></p>	<p>3/15 (primary posts) 3/18 (secondary posts)</p>	<p>10</p>
<p>Assignment 24: Week 10 Quiz <i>Based on lecture and course readings.</i> <i>Deliverables: Answers submitted through the online classroom.</i></p>	<p>3/18</p>	<p>10</p>
<p>Assignment 25: Systems Exercise 3 <i>The student will use Stella Professional to create systems models and analyze data related to sustainability.</i> <i>Deliverables: Files submitted through online classroom.</i></p>	<p>3/18</p>	<p>10</p>
<p>Assignment 26: Week 11 Discussion Forum <i>Based on readings, lectures, and activities.</i> <i>Deliverables: A primary post for each discussion prompt and secondary posts in response to others (this includes a secondary post in the weekly VT Reflection Vlog as well).</i></p>	<p>3/29 (primary posts) 4/1 (secondary posts)</p>	<p>10</p>
<p>Assignment 27: Week 11 Quiz <i>Based on lecture and course readings.</i> <i>Deliverables: Answers submitted through the online classroom.</i></p>	<p>4/1</p>	<p>10</p>
<p>Assignment 28: Week 12 Discussion Forum <i>Based on readings, lectures, and activities.</i> <i>Deliverables: A primary post for each discussion prompt and secondary posts in response to others (this includes a secondary post in the weekly VT Reflection Vlog as well).</i></p>	<p>4/5 (primary posts) 4/8 (secondary posts)</p>	<p>10</p>
<p>Assignment 29: Week 12 Quiz <i>Based on lecture and course readings.</i> <i>Deliverables: Answers submitted through the online classroom.</i></p>	<p>4/8</p>	<p>10</p>
<p>Assignment 30: Systems Exercise 4 <i>The student will use Stella Professional to create systems models and analyze data related to sustainability.</i> <i>Deliverables: Files submitted through online classroom.</i></p>	<p>4/8</p>	<p>10</p>
<p>Assignment 31: Week 13 Discussion Forum <i>Based on readings, lectures, and activities.</i> <i>Deliverables: A primary post for each discussion prompt and secondary posts in response to others (this includes a secondary post in the weekly VT Reflection Vlog as well).</i></p>	<p>4/12 (primary posts) 4/15 (secondary posts)</p>	<p>10</p>

Assignment 32: Week 13 Quiz <i>Based on lecture and course readings.</i> <i>Deliverables: Answers submitted through the online classroom.</i>	4/15	10
Assignment 33: Week 14 Discussion Forum <i>Based on readings, lectures, and activities.</i> <i>Deliverables: A primary post for each discussion prompt and secondary posts in response to others.</i>	4/19 (primary posts) 4/22 (secondary posts)	10
Assignment 34: Week 14 Quiz <i>Based on lecture and course readings.</i> <i>Deliverables: Answers submitted through the online classroom.</i>	4/22	10
Assignment 35: Sustainability Science Literature Review <i>The student will compose an integrative literature review arguing for a particular thesis related to sustainability science.</i> <i>Deliverables: Papers will be submitted via Turnitin and posted in the Week 14 discussion forum.</i>	4/19 (Turnitin)	10
Assignment 36: Final Reflection Journal <i>Students will reflect on their learning gains and conceptual changes at the end of the course.</i> <i>Deliverables: Journal submission in Week 15.</i>	4/26	10

Grading

Your cumulative average will be based on the following weighted averages:

Category	Total Points	Weight
Weekly Quizzes (14 quizzes, 10 pts per quiz)	140	20%
Weekly Discussion Boards (14 weeks, 10 pts each) <ul style="list-style-type: none"> • One primary post for each discussion prompt • One secondary post in response to a classmate for each discussion prompt • One secondary comment in the weekly VoiceThread Vlog 	140	15%
VoiceThread Reflection Vlog (one video blog in VoiceThread)	10	5%
Systems Exercises (4 exercises, 10 pts each)	40	20%
Annotated Bibliography (due during Week 9)	10	15%

Sustainability Science Literature Review (due during Week 14)	10	20%
Final Reflection Journal (submitted during Finals Week)	10	5%
Total		100%

Letter Grade & Percentage

The grading scale for students enrolled for credit is A+ (98% to 100%), A (94% to less than 98%), A- (90% to less than 94%), B+ (88% to less than 90%), B (84% to less than 88%), B- (80% to less than 84%), C (70% to less than 80%), F (0% to less than 70%).

Assignment Guidelines

How should assignments be submitted?

The weekly directions will indicate where assignments will be posted (e.g. to an assignment submission link within the Lessons area). If submitting documents for an assignment or discussion forum, please specify the assignment name in the document title and/or the discussion thread. When creating files, include your name and the name of the assignment in the file title. Also, please be sure to only include one period in file names. The period should be between the file name and the extension. Use underscores instead of spaces in file names (Blackboard doesn't like spaces). For example: jdarosa_assignment1.docx. Acceptable file submission formats are DOCX and PDF, unless otherwise stated.

APA Formatting and Style. All papers, discussion posts, and assignments must use APA citation style to credit sources. Papers must also be formatted according to APA guidelines.

Turnitin. The Annotated Bibliography and Sustainability Science Literature Review will be submitted using Turnitin, an educational tool that helps identify and prevent plagiarism from Internet resources. You will be required to submit your paper electronically using the Turnitin link during Weeks 9 and 14 of class. You do not need a Turnitin account. Your assignment will be assigned an originality score and report which you and Professor da Rosa will be able to see. You are allowed to submit your bibliography and paper multiple times up to the due date, and Professor da Rosa will grade the last submission by default. To learn more about Turnitin, go to <http://turnitin.com/>.

VoiceThread. The VoiceThread Reflection Vlog will be presented using VoiceThread, a cloud based platform for asynchronous multimedia discussion threads. VoiceThread allows users to navigate through slides and leave comments using voice, text, or video. To learn more about VoiceThread, go to <https://voicethread.com/>. To access VoiceThread in Blackboard, click on the VoiceThread Course View tab in the course menu.

When will assignments be due?

Assignment and activity due dates are listed in this syllabus and the weekly checklists. Professor da Rosa will announce changes in the online classroom via the announcements tool. Some larger assignments will be completed over several weeks. In these cases, you will be prompted to complete portions of the assignment each week.

When will completed assignments be returned?

Professor da Rosa will aim to return assignments to you within 5-7 days following the due date, depending on the length of the assignment. You will receive feedback under the My Grades link in the left-hand menu of your course.

What is the policy for late assignments?

You are expected to contact Professor da Rosa in advance if you think you cannot meet an assignment deadline. However, if an assignment is late and prior arrangements have not been made with Professor da Rosa, the assignment score will be marked zero. No exceptions.

What happens if I cannot participate in a synchronous session?

Synchronous sessions might occasionally be scheduled by Professor da Rosa to discuss course projects. Attendance in these sessions is encouraged but not required. Sessions will be recorded and posted for students to watch at a later time if they could not attend.

Time Management Expectations

What is the time demand and schedule of the course?

Because this is a graduate-level course, the rigor and time commitment is higher than a traditional semester course. It is expected that you look ahead to schedule your time. Plan to complete coursework across several days of the week rather than all in one day.

Some assignments require that you work on them for multiple weeks. Be sure to review the assignment directions at the beginning of the course so that you can plan your time accordingly. Please seek help before becoming frustrated and spending a significant amount of time to resolve an issue.

Course Participation & Communication Policy

Participation

What are the participation requirements?

You are expected to log into Blackboard **at least three** times a week, though a daily check-in is recommended. It is your responsibility to read all announcements and discussion postings within your assigned forums. You should revisit the discussion and the weekly VoiceThread Vlog multiple times over the week to contribute to the dialogue and review feedback from your peers. Each discussion forum prompt requires an initial (primary) post and one or more substantive response (secondary) posts. Posting details and requirements are further specified in each discussion prompt's directions. There may be one or more discussion prompts per weekly discussion.

Each student will sign up during Week 1 for a vlog week. When it is your week, you are required to post a 5-10 minute VoiceThread vlog (video blog) based on a given prompt (indicated in the sign up wiki) for your classmates to respond to. If you are not presenting, then you are required to post at least one secondary comment in the weekly VoiceThread Vlog in response to the presenter (part of your discussion grade for the week).

I will be reading your posts daily, but I generally refrain from directly commenting on most posts (unless you specifically address a question to me). I will occasionally interject to guide the conversation back on track, to connect student ideas, and to share examples that deepen your understanding. For the most part, the discussion area is

intended for you and your peers to discuss and debate the lesson topic, readings, activities, and themes. I recognize that frequent posts from me tend to distract and stifle rich student conversation.

Network Etiquette (i.e. “Netiquette”)

In this course, online discussion will be primarily take place in our online discussion board. In all textual online communication, it's important to follow proper rules of netiquette.

What is netiquette? Simply stated, it's network etiquette -- that is, the etiquette of cyberspace. And "etiquette" means the social and cultural norms of communicating with others in a proper and respectful way. In other words, netiquette is a set of rules for behaving and interacting properly online.

The Netiquette “Core Rules” linked below are a set of general guidelines for cyberspace behavior. They probably won't cover all situations, but they should give you some basic principles to use in communicating online.

For Netiquette Core Rules visit [The Core Rules of Netiquette](#) web page.

Contacting the Instructor

The instructor for this course is Professor da Rosa (jdarosa@jhu.edu). Feel free to contact me with comments, questions, and concerns. You will receive a response within 24-48 hours.

All email messages will be sent to you via your JHU email account, so you should be in the habit of checking that account every day or you should ensure that your JHU email account forwards messages to another account of your choice.

Professionalism and respect is expected throughout this course, whether online, in person, emailing, or calling. Your communications with me or your classmates should always be in a professional manner. This includes professionalism in salutations (not “Hey Jenn!” or “Hi Jennifer” – Professor da Rosa, please) when sending or signing emails and responding to emails in a timely manner.

Course Protocols

Course Protocols

How will I know about changes to the course?

Frequently, you will find new announcements posted in the Announcements, which contain information about current course activities that you are working on and any changes to the course. Please check announcements every time that you log into your online course.

How should I communicate with others in this course?

You should communicate often with your classmates and with Professor da Rosa. The majority of communication will take place within the Discussion forums. When you have a question about an assignment or a question about the course, please email Professor da Rosa, or post your question in the course’s “Ask Your Professor” forum.

Are there any requirements for sending e-mail messages?

When you send an e-mail message to the instructor or to another participant in the course, please observe the following guidelines:

- Include the title of the course in the subject field (e.g., *JHU Sustainability Science*).
- Keep messages concise, and check spelling and grammar.
- Send longer messages as attachments.
- Sign your full name (the sender's email is not always obvious).

Course Topics, Activities & Schedule

Tentative Course Schedule

Important Note: Activity and assignment details will be explained in detail within each week's lesson. If you have any questions, please contact Professor da Rosa.

Our "weeks" run from Monday to Sunday. Below is the agenda for the semester. The schedule is subject to change with fair notice. If changes are needed, students will be notified via Blackboard announcements at least 5 days in advance.

Week	Dates	Lesson Topic	Activities	Assessments & Due Dates
1	1/8-1/14	What is Sustainability Science?	de Vries (2013) – Ch 1 & 8 Additional readings posted in eReserves	Week 1 Discussion Forum (primary posts due by Thursday, secondary posts due by Sunday) Sign Up for VT Vlog Week by Sunday Week 1 Quiz (due by Sunday)
2	1/15-1/21	Learning from the Past	de Vries (2013) – Ch 3 Additional readings posted in eReserves	Week 2 Discussion Forum (primary posts due by Thursday, secondary posts due by Sunday) Week 2 VoiceThread Vlog (presenter posts by Thursday, comments from class by Sunday) Week 2 Quiz (due by Sunday)
3	1/22-1/28	The Great Acceleration	de Vries (2013) – Ch 4 Additional readings posted in eReserves	Week 3 Discussion Forum (primary posts due by Thursday, secondary posts due by Sunday) Week 3 VoiceThread Vlog (presenter posts by Thursday, comments from class by Sunday) Week 3 Quiz (due by Sunday)
4	1/29-2/4	System Dynamics and the Study of	de Vries (2013) – Ch 2	Week 4 Discussion Forum (primary posts due by Thursday,

		Sustainability	Additional readings posted in eReserves	secondary posts due by Sunday) Week 4 VoiceThread Vlog (presenter posts by Thursday, comments from class by Sunday) Week 4 Quiz (due by Sunday) Systems Exercise 1 due by Sunday
5	2/5-2/11	Framework for Sustainability	de Vries (2013) – Ch 5 Additional readings posted in eReserves	Week 5 Discussion Forum (primary posts due by Thursday, secondary posts due by Sunday) Week 5 VoiceThread Vlog (presenter posts by Thursday, comments from class by Sunday) Week 5 Quiz (due by Sunday)
6	2/12-2/18	Worldviews & Quality of Life	de Vries (2013) – Ch 6 Additional readings posted in eReserves	Week 6 Discussion Forum (primary posts due by Thursday, secondary posts due by Sunday) Week 6 VoiceThread Vlog (presenter posts by Thursday, comments from class by Sunday) Week 6 Quiz (due by Sunday)
7	2/19-2/25	Energy Essentials	de Vries (2013) – Ch 7 Additional readings posted in eReserves	Week 7 Discussion Forum (primary posts due by Thursday, secondary posts due by Sunday) Week 7 VoiceThread Vlog (presenter posts by Thursday, comments from class by Sunday) Week 7 Quiz (due by Sunday) Systems Exercise 2 due by Sunday
8	2/26-3/4	Land & Nature	de Vries (2013) – Ch 9 Additional readings posted in eReserves	Week 8 Discussion Forum (primary posts due by Thursday, secondary posts due by Sunday) Week 8 VoiceThread Vlog (presenter posts by Thursday, comments from class by Sunday) Week 8 Quiz (due by Sunday)
9	3/5-3/11	Humans: Population Growth & Behavior	de Vries (2013) – Ch 10 Additional readings posted in eReserves	Week 9 Discussion Forum (primary posts due by Thursday, secondary posts due by Sunday) Week 9 VoiceThread Vlog (presenter posts by Thursday,

				<p>comments from class by Sunday)</p> <p>Week 9 Quiz (due by Sunday)</p> <p>Annotated Bibliography due Sunday</p>
10	3/12-3/18	Agricultural and Food Systems	<p>de Vries (2013) – Ch 11</p> <p>Additional readings posted in eReserves</p>	<p>Week 10 Discussion Forum (primary posts due by Thursday, secondary posts due by Sunday)</p> <p>Week 10 VoiceThread Vlog (presenter posts by Thursday, comments from class by Sunday)</p> <p>Week 10 Quiz (due by Sunday)</p> <p>Systems Exercise 3 due by Sunday</p>
	3/19-3/25	Spring Break Week, no participation required		
11	3/26-4/1	Renewable Resources & Sustainable Harvest	<p>de Vries (2013) – Ch 12</p> <p>Additional readings posted in eReserves</p>	<p>Week 11 Discussion Forum (primary posts due by Thursday, secondary posts due by Sunday)</p> <p>Week 11 VoiceThread Vlog (presenter posts by Thursday, comments from class by Sunday)</p> <p>Week 11 Quiz (due by Sunday)</p>
12	4/2-4/8	Non-Renewable Resources & Industry	<p>de Vries (2013) – Ch 13</p> <p>Additional readings posted in eReserves</p>	<p>Week 12 Discussion Forum (primary posts due by Thursday, secondary posts due by Sunday)</p> <p>Week 12 VoiceThread Vlog (presenter posts by Thursday, comments from class by Sunday)</p> <p>Week 12 Quiz (due by Sunday)</p> <p>Systems Exercise 4 due by Sunday</p>
13	4/9-4/15	Sustainable Economy	<p>de Vries (2013) – Ch 14</p> <p>Additional readings posted in eReserves</p>	<p>Week 13 Discussion Forum (primary posts due by Thursday, secondary posts due by Sunday)</p> <p>Week 13 VoiceThread Vlog (presenter posts by Thursday, comments from class by Sunday)</p> <p>Week 13 Quiz (due by Sunday)</p>
14	4/16-4/22	Sustainable Future?	<p>de Vries (2013) – Ch 15</p> <p>Additional readings posted in eReserves</p>	<p>Week 14 Discussion Forum (primary posts due by Thursday, secondary posts due by Sunday)</p>

				Week 14 Quiz (due by Sunday) Sustainability Science Literature Review due Thursday
15	4/23-4/29	Finals Week		Final Reflection Journal due Thursday

*The last day to withdraw from the course is March 16.

University Policies

This course adheres to all University policies described in the academic catalog. A few to pay close attention to are noted below.

Students with Disabilities

Johns Hopkins University is committed to providing reasonable and appropriate accommodations to students with disabilities. Students with documented disabilities should contact the coordinator listed on the [Disability Accommodations](#) page. Further information and a link to the Student Request for Accommodation form can also be found on the [Disability Accommodations](#) page.

Ethics & Plagiarism

JHU Ethics Statement: The strength of the university depends on academic and personal integrity. In this course, you must be honest and truthful. Ethical violations include cheating on exams, plagiarism, reuse of assignments, improper use of the Internet and electronic devices, unauthorized collaboration, alteration of graded assignments, forgery and falsification, lying, facilitating academic dishonesty, and unfair competition. Report any violations you witness to the instructor. Read and adhere to JHU's [Notice on Plagiarism](#). **Dropping the Course** You are responsible for understanding the university's policies and procedures regarding withdrawing from courses found in the current catalog. You should be aware of the current deadlines according to the [Academic Calendar](#).

Getting Help

You have a variety of methods to get help. Please consult the help listed in the "Blackboard Help" link in the online classroom for important information. If you encounter technical difficulty in completing or submitting any online assessment, please immediately contact the designated help desk listed on the [AAP online support page](#). Also, contact your instructor at the email address listed atop this syllabus.

Copyright Policy

All course materials are the property of JHU and are to be used for the student's individual academic purpose only. Any dissemination, copying, reproducing, modification, displaying, or transmitting of any course material content for any other purpose is prohibited, will be considered misconduct under the [JHU Copyright Compliance Policy](#), and may be cause for disciplinary action. In addition, encouraging academic dishonesty or cheating by distributing information about course materials or assignments which would give an unfair advantage to others may violate AAP's [Code of Conduct](#) and the University's [Student Conduct Code](#). Specifically, recordings, course materials, and lecture notes may not be exchanged or distributed for commercial purposes, for compensation, or for any purpose other than use by students enrolled

in the class. Other distributions of such materials by students may be deemed to violate the above University policies and be subject to disciplinary action.

Code of Conduct

To better support all students, the Johns Hopkins University non-academic [Student Conduct Code](#) has been integrated and updated to include all divisions of the University. In addition, it is important to note that all AAP students are still accountable for the [Code of Conduct for Advanced Academic Programs](#).

Title IX

Confidentiality and Mandatory Reporting

As an instructor, one of my responsibilities is to help create a safe and inclusive learning environment on our campus. I also have mandatory reporting responsibilities related to my role as a Responsible Employee under the Sexual Misconduct Policy & Procedures (which prohibits sexual harassment, sexual assault, relationship violence and stalking), as well as the General Anti-Harassment Policy (which prohibits all types of protected status based discrimination and harassment). It is my goal that you feel able to share information related to your life experiences in classroom discussions, in your written work, and in our one-on-one meetings. I will seek to keep information you share private to the greatest extent possible. However, I am required to share information that I learn of regarding sexual misconduct, as well as protected status based harassment and discrimination, with the Office of Institutional Equity (OIE). For a list of individuals/offices who can speak with you confidentially, please see Appendix B of the [JHU Sexual Misconduct Policies and Laws](#).

For more information on both policies mentioned above, please see: [JHU Relevant Policies, Codes, Statements and Principles](#). Please also note that certain faculty and other University community members also have a duty as a designated Campus Safety Authority under the Clery Act to notify campus security of certain crimes, as well as a duty under State law and University policy to report suspected child abuse and/or neglect.