Environment, Risk and Decision Making Syllabus

ENR 7150 Spring 2021 https://tinyurl.com/W21-ENR-7150-34335

Course Information

Course times and location: Tuesdays and Thursdays, 12:45 to 2:05 in Zoom

Credit hours: 3

Mode of delivery: Distance Learning

Instructor

• Name: Dr. Robyn S. Wilson

• Email: wilson.1376@osu.edu

• **Phone Number:** 614-247-6169

Office location: 316D Kottman Hall

Office hours: By appointment

Preferred means of communication:

- My preferred method of communication for questions is email.
- My class-wide communications will be sent through the Announcements tool in CarmenCanvas. Please check your <u>notification preferences</u> (go.osu.edu/canvasnotifications) to be sure you receive these messages.

Course Prerequisites

N/A

Course Description

Catalog description: Theory of individual and participatory decision making processes under risk and uncertainty and applications to improve decision making in environmental risk management contexts.

When we think about improving decision making for the environment, we typically look to the fields of education and marketing for insight into changing behavior. A wealth of research in psychology and behavioral economics, however, shows that neither education nor outright persuasion will necessarily lead to more thoughtful or more informed choices. The overall goal of ENR 7150 is to explore research in these fields and to deepen your understanding of decision making under risk and



uncertainty. The first half of the course will focus on the literature from judgment and decision making that indicates how individuals process information, as well as highlight potential errors in information processing that may lead to uninformed or biased decisions under risk and uncertainty. The second half of the course will focus on applications from the decision aiding literature meant to improve decision making in complex, risk-laden and multi-objective contexts. Both basic literature and applications from environmental contexts will be covered.

Learning Outcomes

By the end of this course, students should successfully be able to:

- 1. Understand the theory that underlies judgment and decision-making in multiobjective, risk-based environmental policy and management contexts.
- 2. Understand the decision analytic techniques designed to improve decision-making in these contexts.

How This Course Works

Mode of delivery: This course is 100% online. There are required synchronous (real time) sessions in Zoom each week on Tuesday and Thursday from 12:45 to 2:05 PM.

Pace of online activities: This course is divided into daily reading assignments that must be completed for the day assigned. Students are expected to keep pace with the required reading for each in-person session but may schedule their efforts to complete that work freely.

Credit hours and work expectations: This is a 3 credit-hour course. According to Ohio State bylaws on instruction (go.osu.edu/credithours), students should expect around 3 hours per week of time spent on direct instruction (instructor content and Carmen activities, for example) in addition to 6 hours of homework (reading and assignment preparation, for example) to receive a grade of C average.

Attendance and participation requirements: Research shows regular participation is one of the highest predictors of success. With that in mind, I have the following expectations for everyone's participation:

Zoom meetings: Required
 All live, scheduled events for the course are required. I will post recordings of synchronous sessions for those who cannot attend.

Course Materials, Fees and Technologies

Required Materials and/or Technologies

- Hardman, D. 2009. Judgment and Decision Making. British Psychological Society and Blackwell Publishing Limited.
- Gregory, R., L. Failing, M. Harstone, G. Long, T. McDaniels and D. Ohlson. 2012.
 Structured decision making: A practical guide to environmental management choices.
 Wiley-Blackwell: Hoboken, NJ. Available online through OSU Library
- The texts are available from most online retailers (and OSU Libraries). Other required readings in the form of journal articles will be available on Carmen or OSU libraries (https://carmen.osu.edu).

Required Equipment

- Computer: current Mac (MacOS) or PC (Windows 10) with high-speed internet connection.
- Webcam: built-in or external webcam, fully installed and tested
- Microphone: built-in laptop or tablet mic or external microphone
- Other: a mobile device (smartphone or tablet) to use for BuckeyePass authentication

If you do not have access to the technology you need to succeed in this class, review options for technology and internet access (go.osu.edu/student-tech-access).

Required Software

Microsoft Office 365: All Ohio State students are now eligible for free Microsoft Office 365. Visit the <u>installing Office 365</u> (go.osu.edu/office365help) help article for full instructions.

CarmenCanvas Access

You will need to use <u>BuckeyePass</u> (buckeyepass.osu.edu) multi-factor authentication to access your courses in Carmen. To ensure that you are able to connect to Carmen at all times, it is recommended that you do each of the following:

- Register multiple devices in case something happens to your primary device. Visit the <u>BuckeyePass - Adding a Device</u> (go.osu.edu/add-device) help article for step-by-step instructions.
- Request passcodes to keep as a backup authentication option. When you see the Duo login screen on your computer, click Enter a Passcode and then click the Text me new codes button that appears. This will text you ten passcodes, good for 365 days, that can each be used once.

 Install the Duo Mobile application (go.osu.edu/install-duo) on all of your registered devices for the ability to generate one-time codes in the event that you lose cell, data, or Wi-Fi service.

If none of these options will meet the needs of your situation, you can contact the IT Service Desk at 614-688-4357 (HELP) and IT support staff will work out a solution with you.

Technology Skills Needed for This Course

- Basic computer and web-browsing skills
- Navigating CarmenCanvas (go.osu.edu/canvasstudent)
- <u>CarmenZoom virtual meetings</u> (go.osu.edu/zoom-meetings)

Technology Support

For help with your password, university email, CarmenCanvas, or any other technology issues, questions or requests, contact the IT Service Desk, which offers 24-hour support, seven days a week.

Self Service and Chat: go.osu.edu/it

Phone: 614-688-4357 (HELP)

Email: <u>servicedesk@osu.edu</u>

Grading and Faculty Response

How Your Grade is Calculated

Assignment Category	Points
Memos	20%
Final Paper	30%
SDM Applications	20%
Discussion Leader	15%
Attendance and Participation	15%

See Course Schedule for due dates.

Descriptions of Major Course Assignments

Final Paper

Description: A 10-15 page, double-spaced paper will be due at the end of the term. The goal of this paper is to apply concepts and lessons from this course to a real-world risk-based decision making problem, both in terms of understanding why this problem exists from the perspective of information processing and potential errors in judgment and decision making, and how we might work to resolve it through the use of decision analytic techniques. It is critical that human behavior (that is actions or a lack of action) resulting from flaws in information processing be at the core of the issue, but that the "poor" decisions by individuals accumulate to cause societal or collective problems. The paper will be graded out of 100 and be worth 30% of your final grade.

Memos

Description: Three 1+ page single-spaced memo will be required over the course of the semester. These memos are an opportunity for you to develop the ideas for your final paper, practice applying course concepts to a real-world problem of interest, and receive initial feedback on your ideas. Each memo will be graded out of 10 points and they will be averaged to account for 20% of your final grade.

In *Memo 1*, you will outline your potential topic of interest and any relevant applications you might draw from the first few weeks of the course on the process of forming

judgments, bounded rationality, etc. As described previously, these should be applications that help to explain "poor" decisions or behaviors among individuals leading to a larger-scale collective social problem. In *Memo 2*, you will outline any additional applications from the next several weeks of the course on risk, emotion, environmental decision making, etc. In *Memo 3*, you will outline any additional applications from the section of the course on cognitive and motivational biases.

These memos should be well written (in terms of complete sentences, correct grammar, etc), but do not need to follow a formal paper structure (intro, conclusion, etc). It should be your thoughts and reflections on the readings and the course concepts as they relate to your paper topic. e.g., How are preferences being constructed? How might risk perception be playing a role in "poor" decision making for this particular problem? What role does emotion vs logic play in the decisions and resulting behaviors you observe? What errors or biases in processing might be leading to these "poor" or uninformed decisions?

SDM Applications

Description: The work for this particular assignment will largely occur in-class during the last section on encouraging better decisions (i.e., the Gregory text). However, you will be responsible for turning in your efforts to document your participation in the exercise (this will require some time outside of class). The workshop assignment will be graded out of 100 and worth 20% of your final grade.

Discussion Leader and Participation

Description: You will **sign up 3 times for a particular class topic** where you will be responsible for helping facilitate discussion in class. The night before each of these sessions you will need to submit at least three discussion questions and one environmental decision making application or reflection related to the readings on the Carmen discussion forum. I will review these the morning before each class as a guide to our discussion for the day. This also gives me a chance to see how you are doing with the readings and for you to come prepared with questions for discussion that day. The entire class may read these posts as a way of preparing for class, but you do not have to make a discussion post if it is not your assigned day. I will likely call on discussion leaders in class to help with definitions and key takeaways.

You will also be expected to participate regularly in class discussion, you will be assigned a cumulative grade at the end of the semester reflecting not just the quantity but the quality of your participation in class. These two assignments will each be graded out of 100 and worth 15% of your final grade.

Attendance

Description: These points will be based on your attendance in class (1 point for attending each virtual, synchronous session). Your attendance grade will be worth 15% of your grade.

Academic integrity and collaboration: Your written assignments, including discussion posts, should be your own original work. In formal assignments, you should follow APA style to cite the ideas and words of your research sources. You are encouraged to ask a trusted person to proofread your assignments before you turn them in but no one else should revise or rewrite your work.

Late Assignments

Please refer to Carmen for due dates. Due dates are set to help you stay on pace and to allow timely feedback that will help you complete subsequent assignments. In-class assignments and attendance/participation points cannot be made up. Late papers/memos will be accepted but will be docked 5/1 points respectively for each calendar day that they are late. While I do not accept documented excuses for making up in-class points, I will excuse any planned absences that you make me aware of by the second week of class (e.g., work related commitments, weddings, etc). If you make me aware of these I will mark these dates as excused and you will receive the attendance/participation points for that day.

Instructor Feedback and Response Time

I am providing the following list to give you an idea of my intended availability throughout the course. Remember that you can call <u>614-688-4357 (HELP)</u> at any time if you have a technical problem.

- Preferred contact method: If you have a question, please contact me first through my
 Ohio State email address. I will reply to emails within 48 hours on days when class is
 in session at the university.
- Class announcements: I will send all important class-wide messages through the Announcements tool in CarmenCanvas. Please check <u>your notification preferences</u> (go.osu.edu/canvas-notifications) to ensure you receive these messages.
- **Discussion board:** I will check and reply to messages in the discussion boards on Tuesday and Thursday morning each week prior to class.
- **Grading and feedback:** For assignments submitted by the due date, I will try to provide feedback and grades within **ten days**. Assignments submitted after the due date may have reduced feedback and grades may take longer to be posted.

Grading Scale

93-100: A	87–89.9: B+	77–79.9: C+	67–69.9: D+
90-92.9: A-	83-86.9: B	73–76.9: C	60–66.9: D
	80-82.9: B-	70-72.9: C-	Below 60: E



Other Course Policies

Discussion and Communication Guidelines

The following are my expectations for how we should communicate as a class. Above all, please remember to be respectful and thoughtful.

- Tone and civility: Let's maintain a supportive learning community where everyone feels safe and where people can disagree amicably.
- Synchronous sessions: During our whole-class Zoom sessions I ask you to have your cameras on, and to mute your microphone when you are not speaking. However, keeping your mic on in breakout sessions will help you get the most out of small group activities. You are always welcome to use the free, Ohio State themed virtual backgrounds (www.osu.edu/downloads/zoom-backgrounds.html). Remember that Zoom and the Zoom chat are our classroom space where respectful interactions are expected.

Academic Integrity Policy

See <u>Descriptions of Major Course Assignments</u> for specific guidelines about collaboration and academic integrity in the context of this online class.

Ohio State's Academic Integrity Policy

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understand the university's Code of Student Conduct (studentconduct.osu.edu), and that all students will complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the university's Code of Student Conduct and this syllabus may constitute "Academic Misconduct."

The Ohio State University's *Code of Student Conduct* (Section 3335-23-04) defines academic misconduct as: "Any activity that tends to compromise the academic integrity of the university or subvert the educational process." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the university's *Code of Student Conduct* is never considered an excuse for academic misconduct, so I recommend that you review the *Code of Student Conduct* and, specifically, the sections dealing with academic misconduct.

If I suspect that a student has committed academic misconduct in this course, I am obligated by university rules to report my suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the university's Code of Student

Conduct (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the university. If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact me.

Other sources of information on academic misconduct (integrity) to which you can refer include:

- Committee on Academic Misconduct (go.osu.edu/coam)
- <u>Ten Suggestions for Preserving Academic Integrity</u> (go.osu.edu/ten-suggestions)
- <u>Eight Cardinal Rules of Academic Integrity</u> (go.osu.edu/cardinal-rules)

Copyright for Instructional Materials

The materials used in connection with this course may be subject to copyright protection and are only for the use of students officially enrolled in the course for the educational purposes associated with the course. Copyright law must be considered before copying, retaining, or disseminating materials outside of the course.

Creating an Environment Free from Harassment, Discrimination, and Sexual Misconduct

The Ohio State University is committed to building and maintaining a community to reflect diversity and to improve opportunities for all. All Buckeyes have the right to be free from harassment, discrimination, and sexual misconduct. Ohio State does not discriminate on the basis of age, ancestry, color, disability, ethnicity, gender, gender identity or expression, genetic information, HIV/AIDS status, military status, national origin, pregnancy (childbirth, false pregnancy, termination of pregnancy, or recovery therefrom), race, religion, sex, sexual orientation, or protected veteran status, or any other bases under the law, in its activities, academic programs, admission, and employment. Members of the university community also have the right to be free from all forms of sexual misconduct: sexual harassment, sexual assault, relationship violence, stalking, and sexual exploitation.

To report harassment, discrimination, sexual misconduct, or retaliation and/or seek confidential and non-confidential resources and supportive measures, contact the Office of Institutional Equity:

- 1. Online reporting form at equity.osu.edu,
- 2. Call 614-247-5838 or TTY 614-688-8605,
- 3. Or Email equity@osu.edu

The university is committed to stopping sexual misconduct, preventing its recurrence, eliminating any hostile environment, and remedying its discriminatory effects. All university

employees have reporting responsibilities to the Office of Institutional Equity to ensure the university can take appropriate action:

- All university employees, except those exempted by legal privilege of confidentiality or expressly identified as a confidential reporter, have an obligation to report incidents of sexual assault immediately.
- The following employees have an obligation to report all other forms of sexual
 misconduct as soon as practicable but at most within five workdays of becoming aware
 of such information: 1. Any human resource professional (HRP); 2. Anyone who
 supervises faculty, staff, students, or volunteers; 3. Chair/director; and 4. Faculty
 member."

This course adheres to The Principles of Community adopted by the College of Food, Agricultural, and Environmental Sciences. These principles are located on the Carmen site for this course; and can also be found at https://go.osu.edu/principlesofcommunity. For additional information on Diversity, Equity, and Inclusion in CFAES, contact the CFAES Office for Diversity, Equity, and Inclusion (https://equityandinclusion.cfaes.ohio-state.edu/). If you have been a victim of or a witness to a bias incident, you can report it online and anonymously (if you choose) at https://studentlife.osu.edu/bias/report-a-bias-incident.aspx.

Your Mental Health

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student's ability to participate in daily activities. No matter where you are engaged in distance learning, The Ohio State University's Student Life Counseling and Consultation Service (CCS) is here to support you. If you find yourself feeling isolated, anxious or overwhelmed, on-demand mental health resources (go.osu.edu/ccsondemand) are available. You can reach an on-call counselor when CCS is closed at 614- 292-5766. 24-hour emergency help is available through the National Suicide Prevention Lifeline website (suicidepreventionlifeline.org) or by calling 1-800-273-8255(TALK). The Ohio State Wellness app (go.osu.edu/wellnessapp) is also a great resource.

Accessibility Accommodations for Students with Disabilities

Requesting Accommodations

The university strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability including mental health, chronic or temporary medical conditions, please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services (SLDS). After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion. In light of the current pandemic, students seeking to request COVID-related accommodations may do so through the university's request process, managed by Student Life Disability Services.

Disability Services Contact Information

Phone: 614-292-3307

Website: <u>slds.osu.edu</u>

Email: <u>slds@osu.edu</u>

• In person: Baker Hall 098, 113 W. 12th Avenue

Accessibility of Course Technology

This online course requires use of CarmenCanvas (Ohio State's learning management system) and other online communication and multimedia tools. If you need additional services to use these technologies, please request accommodations as early as possible.

- <u>CarmenCanvas accessibility</u> (go.osu.edu/canvas-accessibility)
- Streaming audio and video
- <u>CarmenZoom accessibility</u> (go.osu.edu/zoom-accessibility)

Course Schedule

Refer to the CarmenCanvas course for up-to-date due dates.

Week	Session	Topics, Readings, Assignments, Due Dates
How de	o individu	als process information when making decisions?
1	1/12	1: Defining decisions and decision quality
	1/14	 2: Predictive vs. Subjective Judgment - Hardman, Chapters 1 & 2, "The Nature and Analysis of Judgment" - Gigerenzer, G. (2008). Why heuristics work. <i>Perspectives on Psychological Science</i>, 3(1), pp. 20-29.
2	1/19	 3: Biased Perception and Motivated Reasoning - Hardman, Chapter 5, "Assessing Evidence and Evaluating Arguments" - Jacquet, J., Dietrich, M. & Jost, J. (2014) The ideological divide and climate change opinion: "top-down" and "bottom-up" approaches. Frontiers in Psychology, 5:1458, pp. 1-6
	1/21	 4: Expected Utility vs. Prospect Theory - Hardman, Chapter 7, "Decision Making under Risk and Uncertainty" - Haer et al. (2017). Integrating household risk mitigation behavior in flood risk analysis: An agent-based model approach. <i>Risk Analysis</i>, 37(10):1977-1992.
3	1/26	 5: Construction of Preference - Hardman, Chapter 8, "Preference and Choice" - Siegrist and Sutterlin. (2014). Human and nature-cased hazards: The affect heuristic causes biased decisions. Risk Analysis, 34(8): 1482-1494.
	1/28	 6: Naturalistic Decision Making (<i>Guest Facilitator</i>) - Hardman, Chapter 11, "Dynamic Decisions and High Stakes" - Kahneman, D., & Klein, G. (2009). Conditions for intuitive expertise: A failure to disagree. <i>American Psychologist</i>, 64(6), 515-526.
	МЕМО	1 DUE – Sunday, January 31st, 11:59 pm in Carmen dropbox
4	2/2	 7: Defining Risk - Hardman, Chapter 12, "Risk" - Van der Linden. (2015). The socio-psychological determinants of climate change risk perceptions: Toward a comprehensive model. <i>Journal of Environmental Psychology</i>, 41: 112-124.

	2/4	8: Affect and Emotions
		- Hardman, Chapter 15, "Intuition, Reflective Thinking and the Brain"
		 Wieczorek Hudenko, H. 2012. Exploring the influence of emotion on human decision making in human-wildlife conflict. <i>Human Dimensions of Wildlife</i>, 17(1): 16-28.
5	2/9	9: Construal Level Theory of Psychological Distance
		- Liberman and Trope. (2009). The Psychology of Transcending the Here and Now. <i>Science</i> , 322(5905), 1201-1205.
		- Brugger et al. (2015). Psychological responses to the proximity of climate change. <i>Nature Climate Change</i> , 5: 1031-1037.
	2/11	10: Game Theory and Commons Dilemmas
		- Hardman, Chapter 14, "Cooperation and Coordination"
		 van Vugt, M. (2009). Averting the Tragedy of the Commons: Using social psychological science to protect the environment. Current Directions in Psychological Science, 18(3): 169-173.
6	2/16	11: Information Processing and Environmental Decision Making Wrap-up
		- Kleindorfer, P.R. 1999. Chap. 2, pp. 37-56 in Sexton, K., A. A. Marcus, K. W. Easter, and T. D. Burkhardt, editors, <i>Better Environmental Decisions: Strategies for governments, businesses, and communities.</i> Island Press, Washington D.C.
		- Campbell-Arvai et al. 2018. Decision Making about the Environment. Pp. 487-511 in Terry Marsden (Ed.) <i>The Sage Handbook of Nature.</i>
What a	are some o	of the common errors that lead to "bad" decisions?
	2/18	12: Cognitive Biases: Representativeness & Availability (Guest Facilitator)
		- Hardman, Chapter 3, "Judging Probability and Frequency"
		- Sunstein, C. 2006. The availability heuristic, intuitive cost-benefit analysis and climate change. <i>Climatic Change</i> , 77: 195-210.
	MEMO 2	DUE - Sunday, February 21st, 11:59 pm in the Carmen dropbox
7	2/23	No class – scheduled break
	2/25	14: Cognitive Biases: Anchoring and Hindsight
		- Hardman, Chapter 4, "Judgmental Distortions"
		- Joireman, J. et al. (2010). Effect of outdoor temperature, heat primes and anchoring on beliefs in global warming. <i>Journal of Environmental Psychology</i> , 30:358-367.
	1	

3/2	15: Cognitive Biases: Association, Causation, Counterfactuals
	- Hardman, Chapter 6, "Covariation, Causation and Counterfactual Thinking"
	- Attari et al. (2017). Perceptions of water systems. <i>Judgment and Decision Making</i> , 12(3): 314-327.
3/4	16: Decision Making Biases: Discounting and Myopia
	- Hardman, Chapter 10, "Judgment and Choice Over Time"
	- Hardisty et al. (2012). About time: An integrative approach to effective environmental policy. <i>Global Environmental Change</i> , 22:684-694.
3/9	17: Motivational Biases: Ingroup Biases & Outgroup Homogeneity
	- Hardman, Chapter 13, "Decision Making in Groups and Teams"
	 Karns, G.R., A. Heeren, E.L. Toman, R.S. Wilson, H.K. Szarek, and J.T. Bruskotter. 2018. Should grizzly bears be hunted or protected? Social and organizational affiliations influence scientific judgments. Canadian Wildlife Biology & Management 7(1), 18-30.
3/11	18: Motivational Biases: Attribution Errors
	- Plous, S. 1993. The Psychology of Judgment and Decision Making. McGraw Hill: New York, NY. Ch. 16, pp. 174-188
	- Rickard, L.N. (2014). Perception of risk and the attribution of responsibility for accidents. <i>Risk Analysis</i> , 34(3): 514-528.
3/16	19: Motivational Biases: Confirmation Bias, Confidence and Optimism
	- Hardman, Chapter 9, "Confidence and Optimism"
	 Trumbo et al. (2014). An assessment of change in risk perception and optimistic bias for hurricanes among gulf coast residents. Risk Analysis, 34(6): 1013-1024.
3/18	20: Review and Applications
	- Maguire, L. A., and E. A. Albright. 2005. Can behavioral decision theory explain risk- averse fire management decisions? <i>Forest Ecology and Management</i> 211:47-58.
	 Marx and Weber. (2012). Decision making under climate uncertainty. In Eds. T. Dietz and D. Bidwell Climate Change in the Great Lakes Region. Michigan State University Press: East Lansing, MI. pp. 99-128.
	3/4 3/9 3/11

MEMO 3 DUE - Sunday, March 21st, 11:59 pm in the Carmen dropbox

		lp individuals and groups make better decisions?
11	3/23	21: Debiasing and Choice Architecture I
		 Schultz, P. (2014). Strategies for promoting proenvironmental behavior: Lots of tools but few instructions. European Psychologist, 19(2), 107.
		- Dolan, P., Hallsworth, M., Halpern, D., King, D., Metcalfe, R., & Vlaev, I. (2012). Influencing behaviour: The mindspace way. <i>Journal of Economic Psychology</i> , 33(1), 264-277.
	3/25	22: Debiasing and Choice Architecture I
		 Montibeller and Von Winterfeldt. (2015). Cognitive and motivational biases in decision and risk analysis. Risk Analysis, 35(7):1230-1251.
		 Shu and Bazerman. (2012). Cognitive barriers to environmental action: Problems and solutions. In P. Bansal and A.J. Hoffman (Eds.) The Oxford Handbook of Business and the Natural Environment. 18 pages.
12	3/30	23: Foundations of Structured Decision Making (SDM)
		- Gregory et al pp. 1 - 46
	4/1	No class – scheduled break
13	4/6	25: SDM: Decision Sketching
		- Gregory et al pp. 47-68
	4/8	26: SDM Objectives and Performance Measures
		- Gregory et al pp. 69-121
14	4/13	
14	4/13	- Gregory et al pp. 69-121
14	4/13	- Gregory et al pp. 69-121 27: SDM: Incorporating Uncertainty
14		- Gregory et al pp. 69-121 27: SDM: Incorporating Uncertainty - Gregory et al pp. 122-149
14		- Gregory et al pp. 69-121 27: SDM: Incorporating Uncertainty - Gregory et al pp. 122-149 28: SDM: Alternatives and Consequences
	4/15	- Gregory et al pp. 69-121 27: SDM: Incorporating Uncertainty - Gregory et al pp. 122-149 28: SDM: Alternatives and Consequences - Gregory et al pp. 150-207
	4/15	- Gregory et al pp. 69-121 27: SDM: Incorporating Uncertainty - Gregory et al pp. 122-149 28: SDM: Alternatives and Consequences - Gregory et al pp. 150-207 29: SDM: Making Tradeoffs

SDM Application Materials Due – Sunday, April 25th, 11:59 pm in the Carmen Dropbox Final Paper Due - Wednesday, April 28th, 11:59 pm in the Carmen Dropbox