

Sustainable Development: Theory and Practice—Undergraduate Level

Goals of the Course | Assessment Criteria | Course Schedule | I & II tydzień

Monday 11:30 – 13:00 | Aula A

Lecturers:

<i>Prof. Dr. Giuseppe T. Cirella, Ph.D., Hab.</i> Office: A19 Office Hours: Tuesday, 13:30-15:00 Email: gt.cirella@ug.edu.pl	<i>Mgr. Michael J. Rosciszewski-Dodgson, Ph.D. Candidate</i> Email: michael.rosciszewski-dodgson@phdstud.ug.edu.pl
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Goals of the Course:

- The aim of the course is to acquire and systematize knowledge about the idea of sustainable development (SD).
- The course will introduce the idea, history, and implementation of SD aspects within the scope of triple bottom line (TBL) thinking (i.e., environment, social, and economic paradigms).
- TBL: basic knowledge with global environmental issues, socioeconomics and social influences on society, international economic relations, political systems, 'green' economics, and social and environmental corporate responsibility.

Assessment Criteria:

Assessment will be based on tasks (i.e., made up of Presentations, Essays, and Assignments) with varying groups sizes which will change over the course of the semester.

IMPORTANT UPDATE: To receive full marks for each task read the following submission process carefully:

By the beginning of the class due date, for every task, one student per group (or for individual tasks, each student) must upload the task to the proper DROPBOX link:

- Task #1: <https://www.dropbox.com/request/ynUCRxG3k6iDZeAlxc2>
Task #2: <https://www.dropbox.com/request/UL9p9KIUa5EPE8h7jorD>
Task #3: <https://www.dropbox.com/request/X8CCylsqXpRBqeOZnuCx>
Task #4: <https://www.dropbox.com/request/XDIUI304aXI4H2LCbxh1>
Task #5: <https://www.dropbox.com/request/BQRnBQ7YXsWh7bX0CRYy>
Task #6: <https://www.dropbox.com/request/LBdAPFhntNWp76HMGWxL>
Task #7: <https://www.dropbox.com/request/zZ6JldL6OOjPon9p84Nm>
Task #8: <https://www.dropbox.com/request/ikQCuiOOkqEkJxFmVhH5>

1. Name the file: **UG-SD TASK#[insert number]** (e.g., UG-SD TASK#1.pptx for Task #1)
— Nothing else is needed for the filename
— Accepted file formats for assignments are: **.doc, .docx, .pdf**, and for presentations: **.ppt, .pptx, .pdf**
2. Each assignment must have a Cover Page that includes each of the participating students' information: **First name & Last name, Student ID, and Email**

Grades will be calculated into a total of 100 marks (and converted into a percentage). The following percentile breakdown will be allocated for grading:

5.0 points: 90-100% **4.5 points:** 80-89% **4.0 points:** 70-79% **3.5 points:** 60-69% **3.0 points:** 50-59% **2.0 points:** >50%

Detailed Breakdown of Assessment:

	TASK	TOPIC
7.5 %	TASK #1 – Presentation	Environmental issue
7.5 %	TASK #2 – Presentation	Urban sustainability examination
10 %	TASK #3 – Essay Paper	Environmental issue write-up
5 %	TASK #4 – Assignment	Footprint research and write-up
10 %	MIDTERM EXAM	
10 %	TASK #5 – Presentation	Earth summit presentation
10 %	TASK #6 – Assignment	Earth summit write-up
15 %	TASK #7 – Essay Paper	SDG country profile
7.5 %	TASK #8 – Assignment	Crisis management role play
17.5 %	FINAL EXAM	
100 %		

Attendance: attendance will be taken for each lecture, after missing two lectures, minus 3% per lecture.

Course Schedule:

Week	Date	Lect	Subject	Lecture Task	Mark
40	Mon. 02.10		NO LECTURE		
41	Mon. 09.10 11:30– 13:00	G + M	<p>Lecture #1</p> <p>-Introductory class, discuss concepts within sustainability and TBL</p> <p>-Set out the principles of the course, assessment, and individual tasks</p> <p><u>Homework:</u> Groups work together and prepare Task #1 – Presentation</p>		
42	Mon. 16.10 11:30– 13:00	M	<p>Lecture #2</p> <p>-Reinforce TBL reporting and student presentations</p> <p>-Present findings to develop a TBL topic and discuss direction with professor for Task #2 – Presentation</p> <p>Urban sustainability examination (i.e., for each individual group)</p> <p><u>Homework:</u> Groups work together and prepare Task #2 – Presentation</p>	<p>TASK #1 – Presentation</p> <p>-10min, PPT-friendly, no videos</p> <p>Review one of the case studies and present: – background, causes, TBL effects, prevention (i.e., use of tools and policies), and current status (i.e., whether the changes are permanent or temporary)</p> <ol style="list-style-type: none"> 1. Aral Sea – investigation 2. Sandstorms in China – review 3. Kiribati sinking states – investigation 4. Melting of glaciers – the Himalayas, the Alps, Patagonia, Kilimanjaro 5. Cutting the forests (and/or rainforests (e.g., Amazon Jungle, Borneo, Congo), Bialowieza forest, examine IKEA as a case study) 6. Irrigation of fields in Africa or Australia 7. Mining and oil extraction – e.g., mines in Brazil (i.e., Minas Gerais), BP and “the great ocean hole”, Australian coal mining, North American fracking 8. Sea level rise and coastal floods (e.g., Louisiana, The Netherlands, Venice (Italy), Miami (Florida), Denmark) 9. Drinkable water shortages (i.e., Africa, Australia, Poland) 10. Fisheries – from Atlantic Canada, the Mediterranean, mass ocean fishing 11. Buffalo stocks in Yellowstone National Park, USA 12. Depleting coral within the Great Barrier Reef, Australia 13. Flooding in Venice, Italy 14. Melting within Glacier National Park, Montana 15. Sinkholes and receding water in The Dead Sea 16. Deforestation in The Amazon 17. The indigenous Nenets people and declining reindeer within the Yamal Peninsula, Russia 18. Risk of vanishing landmass from The Maldives 19. Flooding in Key West, Florida 20. Reduced vineyards in the Rhône Valley, France 21. Population and development in Mumbai, India 22. Coastal erosion throughout Alaska 23. Catastrophe at Chernobyl, Ukraine 24. Exxon Valdez oil spill, Alaska 25. Lake Victoria’s environmental crises in Africa – connected with Uganda, Kenya and Tanzania 26. The Dust Bowl, USA – agricultural practices of plowing the Great Plains and monoculture farming 27. Ecological destruction from the Vietnam War – “The Rainbow Herbicides” aftereffect 	7.5
43	Mon. 23.10 11:30– 13:00	M	<p>Lecture #3</p> <p>-Student presentations</p> <p>-Corporate social responsibility</p> <p>-Explain Task #3 – Essay Paper</p> <p><u>Homework:</u> Small groups of 3-4 students work together and prepare Task #3 – Essay Paper</p>	<p>TASK #2 – Presentation</p> <p>-10min, PPT-friendly, no videos</p> <p>Review a city’s urban sustainability and present: -background, causes, TBL effects, prevention (i.e., use of tools and policies), and current status (i.e., whether the changes are permanent or temporary)</p>	7.5

44	Mon. 30.10 11:30– 13:00	G	<p>Lecture #4</p> <p>-Ecological footprint – theoretical introduction -Lecture and discussion on indicators</p> <p>http://footprint.wwf.org.uk/ https://offset.climateneutralnow.org/footprintcalc https://www.footprintcalculator.org/home/en</p> <p><i>Homework: Summarize your results between the three online tools for Task #4 – Assignment</i></p>	<p>TASK #3 – Essay Paper</p> <p>-1000-1500 words (not including References) -12 pt, single space, Times New Roman font -Topics and instructions are from the list in Task #1</p> <p>-Lecturer: Briefly explain the requirements for all essays</p> <p>Essay Paper will be made up of the following:</p> <ol style="list-style-type: none"> 1. Title 2. Introduction 3. {body of the essay} Results and Discussion 4. Conclusion 5. References [in APA format = (author, date)] 	10
45	Mon. 06.11 11:30– 13:00	M	<p>Lecture #5</p> <p>-From Stockholm to Paris – a short history of environmental promises</p> <p><i>Homework: Groups work together and prepare Task #5 – Presentation</i></p>	<p>TASK #4 – Assignment</p> <p>-500 words -12 pt, single space, Times New Roman font</p> <p>Assignment is a writeup of your results from the WWF Footprint calculator, UN Carbon Footprint Calculator, and Global Footprint Network and discuss how you could improve your footprint and what you think about it</p>	5
46	Mon. 13.11 11:30– 13:00	G + M	<p>Lecture #6</p> <p>-Environmental impact assessment</p> <p>-Note: Week 47, 12:00-13:00</p>	<p>MIDTERM EXAM (60 min)</p>	10
47	Mon. 20.11 12:00– 13:00	G	<p>Lecture #7</p> <p>-Student presentations -Explain Task #6 – Assignment</p> <p><i>Homework: Groups work together and prepare Task #6 – Assignment</i></p>	<p>TASK #5 – Presentation</p> <p>-10min, PPT-friendly, no videos <i>Review one of the following Earth Summits and present:</i> – background (i.e., history), dates and places, main findings, parties/countries involved, monitoring (i.e., reasons behind it), and aftereffects (i.e., results to date)</p> <ol style="list-style-type: none"> 1. UN Conference on Human Environment & Our Common Future 2. Rio Declaration (and Rio+10 and Rio+20) 3. Millennium Development Goals (I & II) 4. Kyoto Protocol 5. Europa 2020, Roadmap 2050 6. COP 21: UN Climate Change Conference / Sustainable Innovation Forum 7. Agenda 2030 8. UN Sustainable Development Summit (2015) 9. IPCC and Climate Change and the Sustainable Development Agenda <p>Sample websites, literature:</p> <ol style="list-style-type: none"> 1. http://rethinkingprosperity.org/a-short-history-of-sustainable-development/ 2. https://sustainabledevelopment.un.org/rio20 3. http://www.roadmap2050.eu/ 	10
48	Mon. 27.11		NO LECTURE		
49	Mon. 04.12 11:30– 13:00	M	<p>Lecture #8</p> <p>-17 SDGs -Explain Task #7 – Essay Paper</p> <p><i>Homework: Pairs work together and prepare Task #7 – Essay Paper</i></p>	<p>TASK #6 – Assignment</p> <p>-500 words (not including References) -12 pt, single space, Times New Roman font -Summarize Task #5 as follows:</p> <p>Task #6 – Assignment is a group writeup of your Task #5 – Presentation. Include some referencing for this assignment and, as a group, work together to discuss why</p>	10

50	Mon. 11.12 11:30– 13:00	M	Lecture #9 -Fisheries and resource management		
51	Mon. 18.12 11:30– 13:00	M	Lecture #10 -Unsustainable development -Business practices		
52	Mon. 25.12		NO LECTURE		
1	Mon. 01.01		NO LECTURE		
2	Mon. 08.01		NO LECTURE		
3	Mon. 15.01 11:30– 13:00	M	Lecture #11 -Sustainable development in a national and global crisis -Explain Task #8 – Essay Paper <i>Homework: Groups prepare sustainable indexing matrix, TASK #8 – Assignment</i>	TASK #7 – Essay Paper -2000-2500 words (not including References) -12 pt, single space, Times New Roman font -Topics are focalized on one of the SDGs, -Review the background (i.e., the literature), state-of-the-art, TBL report the SGD, explain the future prospective in achieving this goal, what changes would be needed and would the changes need to the permanent or temporary? Essay Paper #2 will be made up of the following: 1. Title 2. Introduction 3. {body of the essay} 4. Discussion 5. Conclusion 6. References [in APA format = (author, date)]	15
4	Mon. 22.01 11:30– 13:00	G + M	Lecture #12 -Ecological economics and environmental management -Social sustainability and global disparities -Conclude course	TASK #8 – Assignment -Crisis management roleplay	7.5
5	Mon. 29.01 11:30– 13:00	G + M	Lecture #13	FINAL EXAM	17.5

Lecture Schedule:

WEEK	LECTURER	LECTURE	DATE	TIME	ROOM
40 – I					
41 – II	Giuseppe + Michael	Lecture #1	Mon., 09.10	11:30–13:00	Aula A
42 – I	Michael	Lecture #2	Mon., 16.10	11:30–13:00	Aula A
43 – II	Michael	Lecture #3	Mon., 23.10	11:30–13:00	Aula A
44 – I	Giuseppe + Michael	Lecture #4	Mon., 30.10	11:30–13:00	Aula A
45 – II	Michael	Lecture #5	Mon., 06.11	11:30–13:00	Aula A
46 – I	Giuseppe + Michael	Lecture #6	Mon., 13.11	11:30–13:00	Aula A
47 – II	Giuseppe	Lecture #7	Mon., 20.11	* 12:00–13:00	Aula A
48 – I					
49 – II	Michael	Lecture #8	Mon., 04.12	11:30–13:00	Aula A
50 – I	Michael	Lecture #9	Mon., 11.12	11:30–13:00	Aula A
51 – II	Michael	Lecture #10	Mon., 18.12	11:30–13:00	Aula A
52 – I					
01 – II					
02 – I					
03 – II	Michael	Lecture #11	Mon., 15.01	11:30–13:00	Aula A
04 – I	Giuseppe + Michael	Lecture #12	Mon., 22.01	11:30–13:00	Aula A
05 – II	Giuseppe + Michael	Lecture #13	Mon., 29.01	11:30–13:00	Aula A