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| **Capstone Form – Outline** | | |
| Name: Shay Walker-Wilson | **Turn in a typed, fully completed form. Partially completed forms, handwritten forms, or late submissions will not be accepted.** | |
| Draft title of paper: Urban Farming a Solution to Food Sustainability in the 21st Century and Beyond | | |
| A mission statement of approximately 20 words:  *As the population of the World continues to increase the need for increased food production rises. With limited resources urban farming provides a viable solution to this issue.* | | |
| An explanation of your topic and how you plan to address it in approximately 100 words:  *As population continues to increase around the world the need for food production also rises. However, there are a limited number of resources such as land with fertile soil that is capable of being farmed. Land is extremely limited around densely populated areas such as cities and the surround suburbs. Therefore, a possible solution is Urban Farming and applying technological innovations to create and generate crops within these high population areas. This paper will make an appeal to produce companies and high population areas about how to best employ urban farming and the innovations within in order to meet the food needs for the near future and beyond. The paper will include the definition, history, and innovations of urban farming as well as showing examples of urban farming operations in the U.S. and around the world.* | | |
| Draft Outline and Content – Identify 8+ main ideas to be address in paper with page count | | # of pages |
| Introduction: Abstract – mission statement and summary of paper | | 1 |
| The Issue faced by Population growth/density | | 1 |
| Definition, History, different forms of Urban Farming | | 5 |
| Economics of Agriculture production in the U.S. | | 2 |
| Economics of Agriculture distribution in the U.S.  Internet of Things and Automation applications in Urban Farming | | 2  5 |
| Examples of Urban Farming Studies that have been done already (globally) | | 3 |
| Urban Farming efforts within the United States to present | | 3 |
| Implementation into public school curriculum | | 2 |
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| Recommendations: Conclusion – emphasizing the importance for the adoption of urban farming and persuading city governments and food production companies to do so (economic and security ex. Rising gas prices & Covid) | | 3 |
| Draft Bibliography – Include a minimum of 16+ validated sources (50%+ from professional articles or books)   1. A protocol for evaluating the sustainability of agri-food production systems -- A case study on potato production in peri-urban agriculture in The Netherlands. (2014). Ecological Indicators, 43, 315+. <https://link.gale.com/apps/doc/A369076448/GRNR?u=philbibu&sid=GRNR&xid=64ef108b> 2. Anderson, J. C., II. (2013). An exploration of the motivational profile of secondary urban agriculture students. *Journal of Agricultural Education*, *54*(2), 205+. https://link.gale.com/apps/doc/A381950128/PPAG?u=philbibu&sid=PPAG&xid=69e25888 3. Austin, T., Lu, X., & Ross, D. (2015). Agro-urbanism: Peri-urban developments. *Landscape Architecture Frontiers*, *3*(1), 123+. https://link.gale.com/apps/doc/A453915476/PPAG?u=philbibu&sid=PPAG&xid=34375063 4. Daily, G., & Dasgupta, P. (1998). Food production, population growth, and the environment. *Science*, *281*(5381), 1291+. https://link.gale.com/apps/doc/A21178523/PPAG?u=philbibu&sid=PPAG&xid=b777b0a7 5. De Pascale, G., Colantuono, F., La Sala, P., & Conto, F. (2018). Regional nodes in European areas to boost innovation transfer and knowledge uptake. A social network analysis of building relationships in "Short Food Supply Chain Knowledge and Innovation Network (SKIN)" H2020 project. *Rivista di Economia Agraria - REA*, *73*(3), 133+. <https://link.gale.com/apps/doc/A584495985/PPAG?u=philbibu&sid=PPAG&xid=f57f70ef> 6. Dennis, M., Beesley, L., Hardman, M., & James, P. (2020). Ecosystem (Dis)benefits Arising from Formal and Informal Land-Use in Manchester (UK); a Case Study of Urban Soil Characteristics Associated with Local Green Space Management. *Agronomy*, *10*(4), 1cw+. <https://link.gale.com/apps/doc/A633466798/GRNR?u=philbibu&sid=GRNR&xid=b16e3647> 7. Harmon, A. (2019). Sustainable food movement. *Salem Press Encyclopedia*: http://search.ebscohost.com/login.aspx?direct=true&AuthType=ip,shib&db=ers&AN=89139041&site=eds-live. 8. History of Urban Agriculture and Urban Farming Policies. (2020, May 08). Retrieved January 31, 2021, from [https://online.aurora.edu/histo ry-of-urban-agriculture/](https://online.aurora.edu/history-of-urban-agriculture/) 9. Jaafreh, O. A., & Nagy, I. (2020). Food Security and Sustainable Agriculture: A Case of Hungary. *American-Eurasian Journal of Sustainable Agriculture*, *14*(1), 1+. https://link.gale.com/apps/doc/A623792357/PPAG?u=philbibu&sid=PPAG&xid=9a9570df 10. Kessler, R. (2013). Urban gardening: managing the risks of contaminated soil. *Environmental Health Perspectives*, *121*(11-12), A326. https://link.gale.com/apps/doc/A357760573/PPAG?u=philbibu&sid=PPAG&xid=ec2b53eb 11. Kwon, C.-T., Heo, J., Lemmon, Z. H., Capua, Y., Hutton, S. F., Van Eck, J., & Park, S. J. (2020). Rapid customization of Solanaceae fruit crops for urban agriculture. *Nature Biotechnology*, *38*(2), 182+. <https://link.gale.com/apps/doc/A613408782/PPAG?u=philbibu&sid=PPAG&xid=aa193344> 12. Metych, M. (n.d.). Creating Corridors: The Buzz about the Bee Highway. Retrieved January 31, 2021, from <https://www.britannica.com/explore/savingearth/creating-corridors-the-buzz-about-the-bee-highway> 13. Ogunnupebi, T. A., Oluyori, A. P., Dada, A. O., Oladeji, O. S., Inyinbor, A. A., & Egharevba, G. O. (2020). Promising Natural Products in Crop Protection and Food Preservation: Basis, Advances, and Future Prospects. *International Journal of Agronomy*, *2020*, NA. https://link.gale.com/apps/doc/A639994183/PPAG?u=philbibu&sid=PPAG&xid=f1246eb5 14. Perennial crops. (2010). *Issues in Science and Technology*, *26*(3), 9+. https://link.gale.com/apps/doc/A224768959/PPAG?u=philbibu&sid=PPAG&xid=66d6daf9 15. Philpott, T. (2010, August 04). The history of urban agriculture should inspire its future. Retrieved January 31, 2021, from <https://grist.org/article/food-the-history-of-urban-agriculture-should-inspire-its-future/full/> 16. Sali, G., Monaco, F., Corsi, S., & Mazzocchi, C. (2016). Bringing urban food supply closer to food consumption: opportunities for five European metropolitan regions. *Rivista di Economia Agraria - REA*, *71*(1), 459+. https://link.gale.com/apps/doc/A534043300/PPAG?u=philbibu&sid=PPAG&xid=cea88ff4 | | |