一、課程大綱

<table>
<tr><td>課程名稱
Course Title</td><td colspan="6">（中文 Chinese）糧食安全與氣候危機
（英文 English）Food Security in a Changing Climate</td><td>☐中文授課
■英文授課
Chinese conducted/
English conducted</td></tr>
<tr><td>授課教師
Instructor</td><td>Marvin Joseph F. Montefrio</td><td>任職單位
Department</td><td>Environmental Studies, Yale-NUS College</td><td>專兼任
Full time/
Adjunct</td><td>☐專任
■兼任</td><td>職級</td><td>☐教授■副教授
☐助理教授☐講師
Professor/
Associate Professor/
Assistant Professor
/Instructor</td></tr>
<tr><td>開課系所
Department</td><td>Sociology</td><td>課號
Curriculum Number</td><td>Soc 5093</td><td>學分數
Credits</td><td>1</td><td>修課人數上限
Student numbers</td><td>20</td></tr>
<tr><td>每週時數
Hours</td><td colspan="7">■ 演講___3___小時 ☐ 實驗_____小時</td></tr>
<tr><td>課程性質</td><td colspan="3">☐ 博士班課程（D 字頭）
☐ 碩士班課程（M 字頭）
■ 高年級課程（U 字頭）
☐ 學士班課程</td><td>加選
方式
Selection method</td><td colspan="3">☐ 1. 不限人數。
☐ 2. 發給授權碼
☐ 3. 人數限制___人</td></tr>
<tr><td>課程大綱內容
（含課程概述、教學目標、每週進度及教學內容簡述）
Course outlines</td><td colspan="7">一、課程概述 Course Description

In coping with global climate change, societies need to find ways to nourish bodies with healthy, safe, and culturally appropriate foods. This course explores the critical discussions and debates on the intersections between climate change and food security in the Global North and Global South. It draws from the scholarly traditions of development studies and political ecology in understanding the complex social and material dimensions of food security in a changing climate. Topics include how food production and consumption contribute to global climate change, how climate change induces food insecurity among vulnerable populations, and the solutions proposed to mitigate the climate impacts of the food system and help the vulnerable and precarious adapt to climate change.

二、教學目標 Course Objective

Upon completion of the course, students will be able to:</td></tr>
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	1) Articulate foundational knowledge on key theories and concepts in food security studies; 2) Navigate the complex relations between the various facets of the climate change issue and food systems; 3) Understand foundational theories in critical food studies from the perspective of development studies and political ecology; and 4) Critically examine ideas and practices that are advocated as solutions to the issues of the climate-food nexus. 三、每週進度及教學內容簡述 **Course outline (Course Schedule of 5 x 3-hour meetings)** First Meeting (12/11 Monday 17:30 -20:10)@社 318b: A Primer on Food Security and Hunger Second Meeting (12/12 Tuesday 17:30 -20:10) @社 318b: The Climate Impacts of Food Third Meeting (12/13 17:30 -20:10) @社 319:Layered Crises and Food Insecurity in the Global South (Public Lecture) Fourth Meeting (12/14 Thursday 17:30 -20:10) @社 318b: The Food Impacts of Climate Change Fifth Meeting (12/15 Friday 17:30 -20:10) @社 318b: Solutions to the Food/Climate Crisis
指定閱讀及延伸閱讀 **Required readings and extension readings (Textbooks & Reference)**	一、指定閱讀(請詳述每週指定閱讀) **Required readings** **First Meeting (Monday): A Primer on Food Security and Hunger** Butterfly, J.R., and Shepherd, J. 2010. Hunger: the Biology and Politics of Starvation. Darthmouth College Press. Pinstrup-Andersen, P. (2009). Food Security: Definition and Measurement. *Food Security*, 1(1), 5–7. Barrett, C.B. 2010. Measuring Food Insecurity. *Science*, 327, 825-828. **Second Meeting (Tuesday): The Climate Impacts of Food** Clune, S., Crossin, E., and Verghese, K. 2017. Systematic Review of Greenhouse Gas Emissions for Different Fresh Food Categories. *Journal of Cleaner Production*, 140, 766-783. Houser, M., and D. Stuart. An Accelerating Treadmill and an Overlooked Contradiction in

Industrial Agriculture: Climate Change and Nitrogen Fertilizer. *Journal of Agrarian Change*, 20(2), 215-237.

Third Meeting (Thursday): The Food Impacts of Climate Change

Wheeler, T., and von Braun, J. 2013. Climate Change Impacts on Global Food Security. *Science*, 341-508-513.

Wood, A.L., P. Ansah, L. Rivers, and A. Ligmann-Zielinska. 2021. Examining Climate Change and Food Security in Ghana through an Intersectional Framework. *The Journal of Peasant Studies*, 48(2), 329-348.

Taylor, M. 2015. The Political Ecology of Climate Change Adaptation: Livelihoods, Agrarian Change, and the Conflicts of Development. New York, NY: Routledge. (Introduction)

Fourth Meeting (Friday): Layered Crises and Food Insecurity in the Global South (Public Lecture)

Abasolo, A.O., and M.J.F. Montefrio. Sira-sira Stores: Food Access in Times of Crisis in Capiz, the Philippines. (manuscript under review)

Natarajan, N., Brickell, K., and Parsons, L. (2019). Climate Change Adaptation and Precarity Across the Rural-Urban Divide in Cambodia: Towards a 'Climate Precarity' Approach. *Environment and Planning E: Nature and Space*, 2(4), 899-921.

Fifth Meeting (Monday the following week): Solutions to the Food/Climate Crisis

Borras, S.M., J.C. Franco., and Z. Nam. 2020. Climate Change and Land: Insights from Myanmar. *World Development*, 129, 104864.

Newell, P., and O. Taylor. 2018. Contested Landscapes: The Global Political Economy of Climate-smart Agriculture. *The Journal of Peasant Studies*, 45(1), 108-129.

Spagnuolo, D. 2021. Problematizing "Ethical Eating": The Role of Policy in an Ethical Food System. *Food, Culture & Society*, 1-19.

二、延伸閱讀(請詳述每週延伸閱讀) **Extension readings**

Farstad, M., H. Vinge, and E.P. Straete. 2020. Locked-in or Ready for Climate Change Mitigation? Agri-food Networks as Structures for Dairy-Beef Farming. *Agriculture and Human Values*, 38, 29-41.

	Fenzi, M., P. Roge, A. Cruz-Estrada, J. Tuxill, and D. Jarvis. 2022. Community Seed Network in an Era of Climate Change: Dynamics of Maize Diversity in Yucatan, Mexico. *Agriculture and Human Values*, 39, 339-356. Feola, G., A. Lerner, and M.J.F. Montefrio, M. Jain, and K.A. Nicholas. (2015). Farmers Responses to Multiple Stresses in the Face of Global Change: Assessing Five Case Studies to Enhance Adaptation. *Journal of Rural Studies*, 39, 48-78. Kortetmäki, T., and M. Oksanen. 2021. Is there a Convincing Case for Climate Veganism? *Agriculture and Human Values*, 38, 729-740. Isakson, S.R. 2015. Derivatives for Development? Small-farmer Vulnerability and the Financialization of Climate Risk Management. *Journal of Agrarian Change*, 15(4), 569-580. Karlsson, L., L.O. Naess, A. Nightingale, and J. Thompson. 2018. 'Triple Wins' or 'Triple Faults'? Analysing the Equity Implications of Policy Discourses on Climate-smart Agriculture (CSA). *The Journal of Peasant Studies*, 45(1), 150-174. Taylor, M. 2015. The Political Ecology of Climate Change Adaptation: Livelihoods, Agrarian Change, and the Conflicts of Development. New York, NY: Routledge.
成績評量方式與標準（請說明各項評量項目內容設計、比例及標準）**Grading**	**Attendance and Participation in Class Discussions (40% of final grade)** Students are expected to read all assigned texts before class, attend all class meetings (including the public lecture), and actively participate in class discussions. **In-class Group Exercises (30%)** Students will be engaging in two group exercises following the main themes of the course and will come up with an output to present in class (e.g., mind maps or a mini presentation). **Individual Reflections (30%)** Each student will do a reflective exercise at the beginning and end of the course and will write a short reflection essay (no longer than 500 words each) to articulate these reflections. There will be a total of two reflections to be submitted throughout the course.
本課程對學生課後學習之要求 **Requirements for students after the class:**	Students are required to complete an average of 2-4 hours of reading per day for all five sessions (total of about 10-20 hours of reading) to prepare for class discussion.