Schedule

Unless otherwise indicated below, all sessions start at 10am in Innovation Hall 215G, GMU Fairfax campus. Its address is 4699 Mattiponi River Ln., located directly East of Mason Pond on this map). GPSC Fellows should expect to participate in all sessions below. Mason students are expected to attend all numbered sessions, with option to participate in sessions marked with asterisks.

Date	Session #	Activities/Objectives/Outputs	Inputs (Assignments due and/or References)
Pre- program	*	Fellows: Please see preparation page. Mason (EVPP 336) students: Please review syllabus. View, rent or purchase our textbook, Water Sustainability: A Global Perspective (2010) by J.A.A. Jones.* * It is also available for purchase at GMU Bookstore, for borrowing at Mason's Johnson Center 2-hour reserve, or as an annotatable on-line electronic copy via Mason's ereserves. E-reserves can be accessed for free on campus or with a gmu.edu email account, until the end of our session.	1. Dr. Dann World Water Day Welcome
June 29 Sat	*	Fellows met by staff at Dulles Airport, then take Super Shuttle to George Mason Fairfax campus. Super Shuttle will be directed to Hampton Roads Hall (4401 Patriot Circle, Fairfax, Virginia) - #64 in cell E2 of this Fairfax campus map. Staff should be on hand to meet fellows at the Hamptoon Hall.	
June 30 Sun	*	Free Day! Option to have tour or guidance from interested Mason students (Lindsey and 322 students, please let Ashley know if you'd be willing to do so: gpswater@gmu.edu)	

Date	Session #	Activities/Objectives/Outputs	Inputs (Assignments due and/or References)
		OVERVIEW: WATER RESOURCES, HUMAN RIGHTS AND SUSTAINABILITY	
		900AM GPS Fellows meet @Starbucks to go over paper work and get their GMU IDs (w/Ashley and Ilana)	
		Introduction and welcome (Innovation Hall 215G)	
July 01 Mon	1	 1. 10am Syllabus preview (336 students w/Dr. Dann) 2. 10:30am Welcome all, self-introductions (see course participants), and preview session (ALL w/Dr. Dann) 1. Present purpose of this program (course+workshop) 2. Review schedule w/Q&ASelf-introductions (please make your own placard) 3. "Water tasting" (ice breaker) 4. solicitation of remaining students' ecological footprint results (see myfootprint form 3. 11:30 Opening presentation and discussion (considering Chps. 1 & 22): Looming water crisis - is water sustainability achievable? (Why/how or why/how not?) 1:30 PM Session - Plan for our fortnight 1. Discussion prioritization: Challenges (JAA Jones Part 1) and Solutions (JAA Jones Part 3) - ALL 2. Assignments for case study teams (1 fellow with 1-2 [322] students), w/instructions for break-outs - ALL) 3. Teams meet - ALL 4. Daily wrap-up and preview plan for tomorrow (Dr. Dann) 4:30-5:30 Reception at Mason Hall Meese Conference Room (ground floor; 4379 Mason Pond Dr) 	 Read in advance: Jones' (2010) Chp. 1 and 22 (our textbook); and, if desiring "refresher" on water science, Part 2 (ch. 11 & 12) 336 students in advance: preview syllabus come with any questions you have In class: Dr. Dann's Course Overview/Intro

Date	Session #	Activities/Objectives/Outputs	Inputs (Assignments due and/or References)
		 Welcome by Madelyn Ross Remarks by GMU President Cabrera, with thanks to sponsor Paul Gray (Potomac Management Group) Global Problem Solving Consortium introduction by GMU Provost Peter Stearns Introduction of GPS Fellows and University Professor Thomas Lovejoy by Prof. Dann Sklarew Keynote by Mason University Professor Thomas Lovejoy, George Mason University Professor 2012 Blue Planet Prize (lecture here) and 2013 World Wildlife Fund Leaders for a Living Planet Award recipient Thank you, best wishes and closing by Madelyn Ross 	
July 02 Tue	2	GLOBAL PROBLEM SOLVING APPROACHES TO MANAGING WATER FOR SUSTAINABILITY AM Session - Global Problems/Local Solutions: Social Innovation for Water Security Location: Enterprise Hall (10443 Sandy Creek Lane), Room 174, GMU Fairfax campus 1. 9:30am Breakfast with Mason's Social Innovation Program participants 2. 10am Introducing Headboy CEO Ludwick Marishane, world's greatest student entrepreneur 2011 (TED video: A bath without water and No Bathing Weekend) 3. 10:15am Presentation and discussion with Chevenee Reavis, Director of Strategic Initiatives for water.org 4. 11:30am lunch break 5. 12:15pm Meet at George Mason's statue (by Johnson Center), then travel to Washington, DC NOTE: Please bring photo ID in order to enter Wilson Center.	Read in advance: Jones (2010) ch. 3, 21

Date	Session #	Activities/Objectives/Outputs	Inputs (Assignments due and/or References)
		1:30PM Session - Global Problems/Global Solutions: International Agencies and NGOs Location: 4th Floor Conference Room, Woodrow Wilson Center for International Scholars at One Woodrow Wilson Plaza, 1300 Pennsylvania Ave., NW, Washington, DC 20004-3027	
		(Back-up location: The H. John Heinz III Center, 900 17th Street N.W., Suite 700, Washington, DC - large conference room.)	
		 Karin Krchnak, Gender and Water Alliance and World Wide Fund for Nature (WWF) - ppt Chris Severin, Global Environment Facility (GEF) - pdf Richard Volk, US Agency for International Development representative (USAID) - ppt Optional post-session: Happy hour at Aria Pizzeria	Preview Wilson Center presentations on: 1. Managing Our Planet's Freshwater (Dr. Dann and K. Krchnak) 2. The GEF Looking Forward (GEF CEO Naoko Ishii, starts at 33rd min.) 3. Managing Freshwater Inflows to Estuaries (R. Volk)
July 03		IMPLEMENTING LOCAL SOLUTIONS: NEARBY EXAMPLES AM Session - Local Problems/Local Solutions: Dimensions of Water Management in Fairfax County	
Wed Wed	3	 9am Bring government-issued photo ID and meet in front of Mason Starbucks for caravan to Griffith¹ 9:45am Arrive at Griffith Water Treatment Plant. NOTE: No video or photos allowed inside. 10am Tour and discussion with Jeanne Bailey, Director of Public Affairs, and Greg Prelewicz, Chief of Source Water Planning and Protection, at Fairfax Water's Griffith Water Treatment Plant 	1. Read in advance: Jones (2010) ch. 15

Date	Session #	Activities/Objectives/Outputs	Inputs (Assignments due and/or References)
		PM Session - Local Problems/Local Solutions (continued) 1. (Noon "brownbag") Visit to Mason Wetlands Mesocosm w/Dr. Changwoo	
		Ahn, Professor of Environmental Science & Policy, including ecological sustainability and wetlands courses	
		 (1:30) Laura Grape, Director, Northern Virginia Soil & Water Conservation District (3:00) Introduce Case Study Approach (Tokyo Arakawa River and Childrens' Pond+ Issue Discussion #1) 	
		4. (3:15) Accessing Dr. Stearns' Human Rights MOOC 5. (3:30) Weekly wrap-up/preview next week 6. (4pm) Fellows go for errand with staff	
		Dinner with GMU Summer Social Innovation Program 1. 6pm at Bryon's Grille	
July 04 Thu	*	USA Independence Day - Free day with option to picnic and watch national fireworks from Iwo Jima Memorial (Arlington, Virginia) List of 4th of July Activities	
July 05 Fri	*	Riparian cultural activities - American Folklife Festival (Washington, DC) + self-paced case study preparation - Metro to DC	
July 06 Sat	*	Water and biodiversity conservation discussion and tour of Smithsonian-Mason School of Conservation (Front Royal, Virginia)	
		 7:45am Meet at Fairfax campus (@Starbucks) (9am) Breakfast, tour and discussion with Dr. Alonso Aguirre, Executive 	

Date	Session #	Activities/Objectives/Outputs	Inputs (Assignments due and/or References)
		Director, Smithsonian-Mason School of Conservation (Front Royal, Virginia) 3. (11:45) Lunch and gift shop at Apple House 4. (1:30pm) Water sampling floatilla near Shenendoah-Potomac confluence (Harpers Ferry, West Virginia)	
		***wear comfortable shoes (ideally water-friendly ones) ***bring sunscreen, hat, swimsuit and towel ***bring snacks for the ride back	
		Canoe-based water sampling along tidal Potomac River (GPS Fellows only, due to limited boats)	
July 07 Sun	X	 8:20 Meet at Starbucks (Fairfax campus) Training with Michelle Ryan, George Mason U. aquatic snail expert, Occoquan Regional Park (Lorton, Virginia) Paddleboat-based sampling tour along Belmont Bay Lunch at Madigan's Waterfront (Occoquan, Virginia) (to be confirmed) 	
		***wear comfortable shoes (ideally water-friendly ones) ***bring sunscreen, <u>hat</u> , swimsuit and towel	
July 08 Mon	4	WATER AND SUSTAINABILITY ISSUES, CASE STUDIES AND SOLUTIONS AM Session:	
		 Prof. <u>Abul Hussam</u>, Director of GMU's Center for Clean Water and Sustainable Technologies (<u>CCWST</u>), and recipient of TIME Magazine's Global Heroes of the Environment Award (2007) and U.S. National Academy of Engineering - Grainger Challenge Prize for Sustainability (2007) 	Read in advance: Dr. Hussam's presentation abstract (doc); Jones (2010), ch. 3, 5, 21 (if not already ready), & (optional:) ch. 16; If not already read, review Vörösmarty et al. (2010), in our references

Date	Session #	Activities/Objectives/Outputs	Inputs (Assignments due and/or References)
		Jul08-Mason-Abul Hussam.pdf 2. Teams meet internally	
		PM Session:	
		Water & Poverity Discussion (led by Team C: Ellie, Nan, Nicole & Stephanie) w/Loess Plateau Case Study (China)	
		WATER, WAR, HUMAN RIGHTS AND NATURE ISSUES, CASE STUDIES AND SOLUTIONS	
		AM Session:	
July 09 Tue	5	 Water, War and Terrorism Discussion (led by Team D: Brad, Erkan & Sarah) 11:30-1pm (Mason Hall rm D03): Lunch and discussion with Mason Provost Peter Stearns about realizing the universal human right of clean water. 	Review in advance:
		PM Session	 Jones (2010), ch. 6, 9 & 20; UN Resolution on the Universal Right of
		 Water, Land and Wildlife Discussion (led by Team E) Presentation and discussion with Ms. Shannyn R. Snyder (Adjunct Faculty of Global and Public Health (Mason), as well as Founder and Webmaster of Water Health Educator (and Mason alumna)) about health & social consequences of unclean water 	Water (for link, see <u>references</u>) 3. Provost Stearns' Dr. Stearns' <u>Human Rights</u> <u>MOOC</u> learning module (need to self enroll then visit GLOAPS1 course)
		Homework: Due by Friday July 12, 2013	

Date	Session #	Activities/Objectives/Outputs	Inputs (Assignments due and/or References)
July 10 Wed	6	WATERSHED-BASED MANAGEMENT: POTOMAC RIVER AND OTHER CASE STUDIES Meet at 930am (campus @Starbucks) to carpool and van to Great Falls National Park (Virginia), return to Mason by 5pm AM - Regional Issues/Potomac River Watershed (meet at Starbucks at 930am) 1. ICPRB Director Carlton Haywood (at Great Falls [weather permitting] or ICPRB) PM - (at SW Washington, DC) 1. Potomac Riverkeeper Vice President Robin Broder (at Southwest Washington, DC, waterfront)	Explore websites in advance: 1. ICPRB - http://www.potomacriver.org 2. Potomac Riverkeeper: http://www.PotomacRiverkeeper.org
July 11 Thu	7	NATIONAL AND TRANSBOUNDARY WATER MANAGEMENT CASE STUDIES (10am) University Hall Room 3001 1. Discussion with Dr. Anastasia Likhacheva (Higher School of Economics, Russia) on Russian Water Strengths, Weaknesses, Opportunities and Threats (SWOT) Analysis 2. Pollution, Water and Disease Discussion (led by Team B) 3. Global Warming and Water Discussion (led by Team A) 4. Teams meet internally	Read in advance: Jones (2010), ch. 5 (if not already read), 8, 10 & 17, plus Likhacheva et al. (2010) in references; (optional: Jones ch. 14)

Date	Session #	Activities/Objectives/Outputs	Inputs (Assignments due and/or References)
		DISCUSSION, CONCLUSIONS AND NEXT STEPS	
		(10am) University Hall Room 3001 (and 3000)	
		AM:	
July 12 Fri	8	Video taping in 3001, w/parallel International Cooperation Simulations (Lake Lara and Rio Pobre) in 3000	
		PM:	
		 Simulations synthesis and program wrap up (Room 3001) (1pm) Certificate ceremony and picnic at Hampton Roads. 336 students start <u>final exam</u>. 	
July 13 Sat	*	Departures to airport.	
July 14 Sun		336 students: Final Exam due at 11:59pm (for full credit)	
Post- program		To be determined (100% optional for enrolled Mason students).	

Footnotes

1. • For security reasons, photography and videotaping are prohibited. • Facilities have limited parking. Car-pooling or other mass transit is encouraged. • Some sites will require entrance through a security checkpoint. The vehicle may be inspected and the group may be asked to show the list of attendees and approval letter from Public Affairs. Groups are encouraged to arrive early to allow adequate time for the security check before the scheduled time for the tour. • All adults must carry government-issued identification and present it upon request. • A safety briefing may be required prior to start of the tour and all attendees are to follow the safety precautions. • During tours, all attendees must remain with the group and be escorted by a Fairfax Water employee. • All book bags, knapsacks and daypacks must remain in the transportation vehicle. • A portion of the tour may be conducted outside, weather permitting, so please dress accordingly