

Working General Itinerary – Ecological Engineering in the Tropics Costa Rica Winter Break 2015

| | Date | Location | Topic / Site Visits | Classwork | MSU / UCR Faculty and student leaders | Lodging | Transuca |
|---|-------------------|---------------------------------|---|---|--|--|--------------------------------|
| | Sat., Dec. 26 | Transfer US to Costa Rica | None | Safety and professionalism refresher | Reinhold - MSU | Hotel La Rosa de America 110 m Sur y 75 m Este de la Mandarina, Alajuela, Costa Rica +506 2433-2741 Larosadeamerica.com | No Bus |
| 1 | Sun., Dec. 27 | San Jose and Alajuela | am – breakfast at hotel 10 am – transfer to San Jose – central market 11:30 am –lunch along the way 1–4 pm – National Museum of Costa Rica, Phone: +506 257–1433, www.museocostarica.go.cr/ 6:30-10pm Bull Fight | Discussion on value of biodiversity at a micro and macro scale Discussion of how culture integrates with engineering Assign LCA reading | Reinhold/Liao– MSU Jose Fco Aguilar – UCR Luis Alonso Mora - lead UCR student Dan Buhr - lead MSU student | | 20 passenger |
| 2 | Mon., Dec. 28 | Alajuela to Tilaran | 8 to noon - Fabio tour – Anaerobic digester and treatment wetland tour & team project preparations, www.eefb.ucr.ac.cr/ depart 1pm to Tilaran 5pm – arrive Tilaran | Discuss Fabio system Assign group project | Reinhold/Liao– MSU Ronald Aguilar /Juan Pablo – UCR Mercedes Azofeifa – lead UCR student Dan Buhr - lead MSU student | Hotel Guadalupe 100m Sur y 75m Este de la Catedral de Tilarán Tilaran 50801, Costa Rica +506 2695 5943 www.hotelguadalupe.c o.cr/en | 20 passenger Driver lodging |
| 3 | Tues., Dec. 29 | Tilaran and Arenal | Suggested 8am – 2pm ICE Tour – hydroelectric/wind energy , Ing. William Fernández Ramírez , \Tel: 2668–4751 / 2511–1145 IP 3207. www.grupoice.com Group Dinner. BBQ at Eduardo home | Discuss life cycle analysis of energy systems | Reinhold/Liao– MSU Ronald Aguilar /Juan Pablo – UCR Alex Mullen – lead MSU student Luis Alonso Mora – lead UCR student | | 20 passenger Driver lodging |
| 4 | Wed., Dec. 30 | Tilaran to Monte Verde (UGA) | 7 am – breakfast Tilaran 9 am – depart for Monte Verde (UGACR) ~11:30 am – arrive and check in at UGACR Lunch at UGACR Afternoon - Biodigester tour at UGACR www.ugacostarica.com . Free time. 6 pm – dinner at UGACR Night hike option? pm – group debrief and project work | Discuss application of other course work to food processing | Reinhold/Liao– MSU Ronald Aguilar /Juan Pablo – UCR Connor Bartle – lead MSU student Mercedes Azofeifa – lead UCR student | University of Georgia – Costa Rica Campus Fabricio Camacho General Manager Molly Bond Reservations +506 2645 7363 +506 8417-0222 (cell) www.ugacostarica.com | 20 passenger Driver lodging |
| 5 | Thur., Dec. 31 | Monte Verde day trips (UGA) | 7:30 am breakfast (UGACR) www.ugacostarica.com 9 am Transfer to Monteverde Reserve. Self– Tour at MV Reserve www.reservamonteverde.com Transfer back to UGACR Noon - lunch at UGACR 1:00 pm – Walk to coffee tour at Café San Luis 1:30 pm – Coffee tour at Café San Luis www.monteverdeinfo.com/ cafe– monteverde–coffee–tour/ 6 pm – dinner at UGACR Night hike option? | Bioenergy reflection DUE | Reinhold/Liao– MSU Juan Pablo – UCR Connor Bartle – lead MSU student Luis Alonso Mora – lead UCR student | University of Georgia – Costa Rica Campus Fabricio Camacho General Manager Molly Bond Reservations +506 2645 7363 +506 8417-0222 (cell) www.ugacostarica.com | 20 passenger Driver lodging |

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| 6 | Fri., Jan. 1 | Monte Verde (UGACR) to Playa Hermosa Guanacaste to OTS Palo Verde | 7:30 am breakfast (UGACR) Am Llano de Cortés Waterfall Lunch at Playa Hermosa Beach Day – Playa Hermosa Guanacaste 4 pm depart for OTS Palo Verde 6 pm – dinner - OTS Palo Verde | Transfer/beach day | Reinhold/Liao– MSU Juan Pablo – UCR Emily Banach – lead MSU student Mercedes Azofeifa – lead UCR student | OTS Palo Verde +506 2524-0607 http://www.tropicalstudies.org/ | 20 passenger Driver lodging |
| 7 | Sat., Jan. 2 | OTS Palo Verde | 7:30 am breakfast (OTS) Lunch – OTS Palo Verde 8 am Palo Verde National park and wetland talk. http://www.ots.ac.cr/ pm – possible boat tour Tempisque River and bird island 6 pm – dinner - OTS Palo Verde | Discuss treatment vs. natural wetlands as ecosystems | Reinhold/Liao– MSU Juan Pablo – UCR Emily Banach – lead MSU student Luis Alonso Mora – lead UCR student | OTS Palo Verde +506 2524-0607 http://www.tropicalstudies.org/ | 20 passenger Driver lodging |
| 8 | Sun., Jan. 3 | OTS Palo Verde am to San Jose and Alajuela | 7:30 am breakfast (OTS) 11 am - 1 pm – UCR Campus Tour. Arranged by Francisco Aguilar. ucr.ac.cr Afternoon – project time | Preliminary project design DUE Engagement check #2 DUE | Reinhold/Liao– MSU Jose Francisco Aguilar – UCR Lauren Mcguire -- lead MSU student Mercedes Azofeifa – lead UCR student | Hotel La Rosa de America 110 m Sur y 75 m Este de la Mandarina, Alajuela, Costa Rica +506 2433-2741 Larosadeamerica.com | 20 passenger |
| 9 | Mon., Jan. 4 | Alajuela | am – breakfast at Hotel 8 am – departure to Coopedota http://www.coopedota.com/ {am – coffee farm, pm – coffee processing} Arranged by Alberto Miranda | Discuss large vs. small scale coffee | Reinhold/Liao– MSU Alberto Miranda – UCR Danielle Smith – lead MSU student Luis Alonso Mora – lead UCR student | | 20 passenger |
| 10 | Tue., Jan. 5 | Alajuela | am – breakfast at Hotel Fabio – team project time 1-4:30 pm the First Symposium “Conversion of Agricultural Wastes in Resources” Estación Experimental Agrícola Fabio Baudrit Moreno, from 1 to 4:30 pm. – Presentations Industry/UCR/MSU | Final design system BUILT and TESTED | Reinhold/Liao– MSU Miranda & Rodriguez UCR Danielle Smith – lead MSU student Mercedes Azofeifa – lead UCR student | | No bus |
| 11 | Wed., Jan. 6 | Alajuela to Le Selva | 8:00 am – Check out and depart for OTS ~ 11 am – arrive OTS Noon- lunch OTS 1:00-3:00 pm – pineapple farm tour 6 pm dinner OTS | Eco Eng reading assigned | Reinhold/Liao– MSU Ronald Aguilar – UCR Katelyn Dunaski – lead MSU student Luis Alonso Mora – lead UCR student | La Selva Biological Station +506 2766–6565 pablo.richard@ots.cr www.ots.ac.cr/index.php?option=com_content&task=view&id=162&Itemid=348 | 20 passenger Driver lodging |
| 12 | Thu., Jan. 7 | Le Selva | am – breakfast OTS am – guided hike noon – lunch OTS 1- 4 pm Corbana – banana plantation and packing house. Dr. Jorge Sandoval (Corbana Research Center at La Rita, Guápiles . www.corbana.co.cr . Werner to coordinate pm – dinner OTS and guided night hike | Eco Eng discussion | Reinhold/Liao– MSU Ronald Aguilar – UCR Charlie Pynnonen – lead MSU student Mercedes Azofeifa – lead UCR student | | 20 passenger Driver lodging |

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| 13 | Fri., Jan. 8 | La Selva to Alajuela and San Jose | am – breakfast OTS 8:00 am depart for San Jose pm – self-selected tours | Eco Eng reflection DUE Engagement check #2 DUE | Reinhold/Liao– MSU Rodriguez? – UCR Charlie Pynnonen – lead MSU student Luis Alonso Mora- lead UCR student | Hotel La Rosa de America 110 m Sur y 75 m Este de la Mandarina, Alajuela, Costa Rica +506 2433-2741 Larosadeamerica.com | 20 passenger |
| 14 | Sat., Jan. 9 | Transfer CR to US | Depart hotel | | | | No Bus |