COURSE SYLLABUS CIV_ENV395

| Date | Topic(s) |
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| | Topic(s) |
| Wednesday, September 20, 2017 | Hour 1 - Intro to course: What / why / who Distribute materials Assign into working groups Hour 2 - Walk the site |
| Monday, September 25, 2017 | Hour 1 - Site Elements of the site: sun, wind, rain, earth Passive systems "let nature do the work" Hour 2 - Site Tools Rhino + Ladybug, EPW Klimaat, Climate Consultant |
| Wednesday, September 27, 2017 | Hour 1 - Site Design Sustainable landscaping Working from the site inward Rainwater collection, greywater Hour 2 - Programming Space layout per function |
| Monday, October 2, 2017 | Student - individuals - present climate / site analysis / precedents |
| Wednesday, October 4, 2017 | Students - groups - present programming layout (bubble diagrams) |
| Monday, October 9, 2017 | Hour 1 - Heat Transfer / Comfort Intro to thermal comfort and psycrometric chart Principles of heat transfer Hour 2 - Heat Transfer in Buildings Case study examples of conduction, convection, radiation as passive strategies Walls, windows, roofs |
| Wednesday, October 11, 2017 | Working session - explain how to use Ladybug to do shading calculations, and to do U-value calculations by hand |
| Monday, October 16, 2017 | Hour 1 - BIM Hour 2 - desk crits |
| Wednesday, October 18, 2017 | Intro: what is energy? Hour 1 - Mechanical Systems, generally. Active mechanical systems Water vs air loops Condenser cycle Hour 2 - Mechanical Systems for different building types Appropriate systems for different buildings |
| Monday, October 23, 2017 | |
| Wednesday, October 25, 2017 | Students present structural schemes |
| Monday, October 30, 2017 | Each group discusses their site, climate, and programming concept as it relates to their major goal Steps to accomplish goal |
| Wednesday, November 1, 2017 Monday, November 6, 2017 | , , |
| • | desk crits |
| Wednesday, November 8, 2017 | Hour 1 - Materials Embodied energy / carbon Renewable materials Regional materials Hour 2 - Building Materials Applicability to materials used in building |
| Monday, November 13, 2017 | Detailed study of chosen topic |
| Wednesday, November 15, 2017 | Students present materiality plans, concepts for interior |
| Monday, November 20, 2017 | Focused work (structural, thermal, etc) Detailed study of chosen topic |
| Wednesday, November 22, 2017 | - |
| Monday, November 27, 2017 | - |
| Wednesday, November 29, 2017 | Last class |
| Monday, December 4, 2017 | no ciass - exam period |