

Urban Ecological Systems

The services of novel ecosystems

M2: Assessing the ecological services of a green infrastructure project

Unstacking ecological services

You will schematically represent and calculate the ecological services of a site. In a group of 4-5 students assess the site elements to create a report that calculates the ecological services of the site.

Part 1

Step 1: Use a systems diagram: diagram the inputs, outputs and interactions of the study site. Identify calculators and calculate 1-2 ES

Create a systems diagram, Calculate the roof contributions, identify the calculators for the rest of the site.

Tools: power point, in design, or program of choice, NedLab calculator

Due: Wednesday 1.28 **In class:** present system diagram and calculators being used

Submittal format: power point ppt, 3-5 slides 30 min prior to class place in M2 submittal folder (title file: all last names _ M2 ex. Coates-Jones_ Smith_Harris _M part 1)

Part 2

Step 2: Create an exploded axonometric with stacked layers representing the various services.

Tools: Autocad or equivalent, illustrator, power point, pdf creator, other

Step 4: Calculate the ecological services using the

Tools: VRS ecological calculator

Step 5: Create image charts describing the services provided by such as proposal

Tools: Autocad or equivalent, illustrator, power point, excel, pdf creator, other

Due: Wednesday 2.4 A powerpoint presentation. 30 min prior to class place in M2 submittal folder (title file: all last names _ M2 ex. Coates-Jones_ Smith_Harris _M2)

Due: Monday 2.4 In class:

Submittal format: power point ppt, slides covering the following, 5 minute presentation

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- Overview introducing the problem, intent of the proposal, and outcome.
- Clarify and define the socio-environmental problems- global local, site
- A systems diagram of existing and proposed (existing fading to proposed), In a side column list details (animate as needed).
- A ecosystem service schematic existing and proposed (existing fading to proposed), In a side column list details and techniques used, (animate as needed).
- Images charts or bar graphs of ecological services

Evaluation Criteria: Rational/argument, Systems diagram, explanation of calculators, presentation of ES via axonometric schematics, professionalism