**Last Name: First Name:**

**Expected Graduation: Uni:**

1. **Integrative Courses in Sustainability Management (9 points)**

*1 Required Introductory Course* ; *1 Capstone Course: 1 Elective Course*

These three courses give students an understanding of the elements of sustainability by teaching them about the complex interactions between natural and social systems which sustainability practitioners must always consider

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|  | Course Number | Course Title | Term | Year | Grade | Credits |
| 1 | SUMA PS4100 | Sustainability Management (Required) |  | 20 |  | 3 |
| 2 | SUMA PS5200 | Integrative Capstone Workshop (Required) |  | 20 |  | 3 |
| 3 | SUMA PS |  |  | 20 |  | 3 |

1. **Economics and Quantitative Analysis (9 points)**

*2 Courses in General and Sustainability Economics; 1 Course in Statistics/ Quantitative Analysis*

The economics requirement reflects the fact that sustainability managers must understand the financial costs and benefits of sustainability practice. After completing this requirement, students will have a good understanding of what sustainability means from an economic perspective, both in the traditional and broader socioeconomic sense. The quantitative analysis requirement gives students the necessary tools to utilize data samples when analyzing a larger issue, allowing them to more efficiently determine the best way to proceed on a particular project.

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|  | Course Number | Course Title | Term | Year | Grade | Credits |
| E | SUMA PS |  |  | 20 |  | 3 |
| E | SUMA PS |  |  | 20 |  | 3 |
| Q | SUMA PS |  |  | 20 |  | 3 |

1. **The Physical Dimensions of Sustainability (9 points)**

*0, 1 or 2 Courses in Earth and Environmental Engineering*; 0, *1 or 2 Courses in Environmental Planning, Design, or Architecture* ; 0, *1 or 2 Courses in Ecology or Earth and Environmental Sciences*

The physical dimensions requirement teaches students about the connections between environmental inputs (i.e. natural resources) and outputs (i.e. energy), and their effects on the natural environment. The emphasis in this requirement will be on understanding the environmental impacts from organizational activities. The planning, design or architecture courses give students a foundation in planning, design and spatial issues. This is particularly important, as many sustainability initiatives concern land use, buildings and other physical entities.

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|  | Course Number | Course Title | Term | Year | Grade | Credits |
| 1 | SUMA PS |  |  | 20 |  | 3 |
| 2 | SUMA PS |  |  | 20 |  | 3 |
| 3 | SUMA PS |  |  | 20 |  | 3 |

1. **The Public Policy of Environmental Management (3 points)**

*1 Course in Environmental or Sustainability Policy or Law*

Policy shapes how urban environments are managed and sustainability practitioners must be able to analyze public policy and its effects on what they are able to do. This requirement provides students with an understanding of current policy and strengthens their ability to react to future policy developments as they emerge.

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|  | Course Number | Course Title | Term | Year | Grade | Credits |
| 1 | SUMA PS |  |  | 20 |  | 3 |

1. **General Finance and Management (6 points)**

*2 Courses in Public, Private or Nonprofit General or Financial Management*

The general management requirement teaches the skills that are essential to shaping the behavior of an organization and thus to carrying out effective sustainability initiatives. Students will graduate equipped with the tools to shape organizational culture and employee behavior even as new environmental challenges arise. The financial management requirement gives students a foundation in finance and financial models, and an understanding of how environmental commodities markets regulate polluting industries and provide incentives for encouraging desired behaviors. Students will also investigate the credibility of “non-financial metrics” that often accompany sustainability efforts.

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|  | Course Number | Course Title | Term | Year | Grade | Credits |
| 1 | SUMA PS |  |  | 20 |  | 3 |
| 2 | SUMA PS |  |  | 20 |  | 3 |

**Program Director Approval:**

Steve Cohen (sc32@columbia.edu) Date