**Name: UNI:**

1. **Integrative Courses in Sustainability Science (9 credits)**

The courses require that students integrate their knowledge of Earth observation, measurement, analysis, and modeling skills, as well as the use of scientific tools, to inform sustainability policy, management, and decision-making.

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|  | Course Number | Course Title | Term | Year | Grade | Credits |
| 1 | SUSC PS5001 | Fundamentals of Sustainability Science (Required) |  |  |  |  |
| 2 | SUSC PS5900 | Capstone Workshop (Required) |  |  |  |  |
| 3 |  |  |  |  |  |  |

1. **Observation of Earth Systems (9 credits)**

This area of study introduces students to basic scientific methods used in observing and monitoring natural systems. Students learn to apply these methods in assessing the condition of natural systems, and in making data-driven conclusions about their sustainability.

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|  | Course Number | Course Title | Term | Year | Grade | Credits |
| 1 | SUMA PS5060 | Statistics, Data Analysis and Coding for Sustainability Science (Required – Area 2 **or** 3; cannot be counted towards both Areas) |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |

1. **Analysis and Modelling Environmental Conditions and Impacts (9 credits)**

Courses in this area train students to analyze and model scientific data to understand current and future environments and their interactions with human systems. By learning analysis and modelling, students are better able to inform sustainability policy, management, and decision-making.

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|  | Course Number | Course Title | Term | Year | Grade | Credits |
| 1 | SUMA PS5060 | Statistics, Data Analysis and Coding for Sustainability Science (Required – Area 2 **or** 3; cannot be counted towards both Areas) |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |

1. **Responding to Sustainability Challenges (6 credits)**

Students learn how to use scientific tools in order to prevent, detect, respond and adapt to pressing sustainability issues, such as the loss of biodiversity, climate change impacts, soil and water contamination, and threats to populations.

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|  | Course Number | Course Title | Term | Year | Grade | Credits |
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| 2 |  |  |  |  |  |  |

1. **Sustainability Policy or Management (3 points)**

Courses in this area examine the relationships among sustainability science, policy and management. Students learn about the socio-political and economic contexts in which sustainability science is practiced and the opportunities and obstacles for integrating scientific knowledge in decision-making.

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|  | Course Number | Course Title | Term | Year | Grade | Credits |
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