



CERTIFICATE OF ADVANCED STUDY IN SUSTAINABLE ENTERPRISE PROGRAM AND COURSE DETAILS

- OBJECTIVE: to prepare graduate students to understand sustainability-related challenges, risks, and opportunities, both in general and as these relate to the candidate's primary discipline.
- ADMISSION: open to all currently matriculated graduate students at Syracuse University (SU) and the State University of New York – College of Environmental Science and Forestry (SUNY-ESF). There is no formal application process. The CASSE is not available on a stand-alone basis.
- CORE FACULTY
 - Cliff Davidson, PhD, Wilmot Chair, L.C. Smith College of Engineering and Computer Science, SU
 - David Newman, PhD, Chair and Professor, Forest and Natural Resources Management, SUNY-ESF
 - Rick Smardon, PhD, Professor, Environmental Studies, SUNY-ESF
 - Elet Callahan, JD, Professor, Law & Public Policy, Whitman School of Management, SU; Faculty Director, Sustainable Enterprise Partnership
- COURSE REQUIREMENTS: 3 core courses and two electives (15 total credits).
- CORE COURSES
 - BUA/ECS/FNR 650: *Managing Sustainability: Purpose, Principles, and Practice* (3 credits, offered every spring)
 - Team-taught by core faculty.
 - Also appropriate as a stand-alone elective.
 - Learning objectives:
 - Appreciate the complexity and interdependence of economic, social, and environmental systems;
 - Appreciate the crucial relevance of multiple disciplines in addressing sustainability challenges;
 - Understand the concepts of ecological systems and environmental economics;
 - Be familiar with approaches to sustainable management of natural, societal, and human resources, as well as tools to assess sustainability;
 - Recognize the critical drivers of sustainable enterprise;
 - Be prepared to work collaboratively in multidisciplinary teams to explore sustainability challenges and opportunities.

- BUA/ECS 651: *Strategic Management and the Natural Environment* (3 credits, offered via an accelerated format in late August)
 - Taught in Syracuse by Dr. Michael V. Russo, Lundquist Professor of Sustainable Management, Lundquist College of Business, University of Oregon.
 - Prerequisite: BUA/ECS/FNR 650.
 - Learning objectives:
 - Broadly understand the pressures facing firms to address environmental and corporate social responsibility expectations;
 - Be able to identify and assess sustainability-related strategic opportunities and risks;
 - Be prepared to critically analyze sustainability-related strategies and practices and understand how to implement change in organizations;
 - Understand the impact of sustainability-related strategies and practices on competitive advantage and potential liability;
 - Be able to develop innovative and practical approaches to complex environmental and social challenges in ways that contribute to the bottom line;
 - Be prepared to work collaboratively in multidisciplinary teams to analyze a firm's environmental strategy.

- BUA/ECS/FNR 759: *Sustainability-Driven Enterprise* (3 credits, offered every spring)
 - Prerequisites: BUA/ECS/FNR 650, BUA/ECS 651, first CASSE elective; second elective may be taken concurrently.
 - Taught by Elet Callahan, SEP Faculty Director.
 - Learning objectives:
 - Gain an understanding of the consulting process;
 - Be fluent in the conceptual foundations and practical applications of:
 - the economic, environmental, and social dimensions of sustainability and their interdependence;
 - systems science and its relationship to sustainability; and
 - the natural, financial, technical, legal, and social drivers of organizational sustainability strategy.
 - Be ready to analyze, evaluate, and provide feedback on sustainable approaches to complex organizational challenges and opportunities;
 - Be prepared to engage in transdisciplinary collaboration on a significant project for an organizational client, proposing, refining, and supporting a sustainable solution to a complex challenge or opportunity and assessing its strategic dimensions.

ELECTIVES: Candidates articulate a rationale and focus to support the selection of electives, which are approved on an individual basis by the CASSE faculty director, in consultation the student's department. May also be counted toward another program or concentration.

GPA: A student must attain at least a B in courses taken to fulfill the certificate requirements and a cumulative GPA of at least 3.0 to earn the CASSE.

The Sustainable Enterprise Partnership is a collaboration among SU's Whitman School of Management and L.C. Smith College of Engineering and Computer Science, SUNY-ESF, and the Syracuse Center of Excellence in Environmental and Energy Systems.

<http://partnersforsustainability.org/>