MPS RESS Program – List of Electives (updated FA 2019)

RESS Courses available as electives:
A E 868. Commercial Solar Electric Systems (3 cr.) - Fall
A E 878. Solar Project Development and Finance (3 cr.) - Fall
AERSP 886. Engineering of Wind Project Development (3 cr.) - Summer
B A 850. Sustainability Driven Innovation (3 cr.) - Fall
EME 803. Applied Energy Policy (3 cr.) – Summer, Fall
EME 805. Renewable Energy and Nonmarket Enterprise (3 cr.) - Summer
EME 807. Technologies for Sustainability Systems (3 cr.) – Spring, Summer
EME 810. Solar Resource Assessment and Economics (3 cr.) – Spring, Fall
EME 812. Utility Solar Power and Concentration (3 cr.) - Summer

Electives offered by other programs: (petition needed)
AERSP 583. Wind Turbine Aerodynamics (3 cr.) - Spring
AERSP 880. Wind Turbine Systems (3 cr.) - Fall
AGRO 851. Applied Plant Population Management (3 cr.)
CEDEV 430. Principles of Local Economic Development (3 cr.)
CEDEV 452. Community Structure, Processes and Capacity (3 cr.)
CEDEV 500. Community and Economic Development: Theory and Practice (3 cr.)
CEDEV 505. Leadership Development (3 cr.)
CEDEV 509. Population, Land Use, and Municipal Finance (3 cr.)
CEDEV 567. Resilient Communities and Environments (3 cr.)
CEDEV 575. Methods and Techniques for Community and Economic Development (3 cr.)
EBF 483. Introduction to the Electricity Industry (3 cr.)
EME 401. Energy in a Changing World (3 cr.) – Spring, Summer
EME 444. Global Energy Enterprise (3 cr.) - Fall
EMGT 820. Environmental Law and Policy (3 cr.)
ENGR 405. Project Management for Professionals (3 cr.)
ENGR 501. Engineering Leadership for Corporate Innovation (3 cr.)
ENGR 802. Engineering Across Cultures and Nations (3 cr.)
ENGR 804. Engineering Product Innovation (3 cr.)
GEOG 430. Human Use of the Environment (3 cr.)
GEOG 431. Geography of Water Resources (3 cr.)
GEOG 469. Energy Industry Applications of GIS (3 cr.)
MANGT 510. Project Management (3 cr.)
METEO 469. From Meteorology to Mitigation: Understanding Global Warming (3 cr.) - Spring
SCM 800. Supply Chain Management (4 cr.)
SYSEN 505. Technical Project Management (3 cr.)
SYSEN 507. Systems Thinking (3 cr.)
SYSEN 520. Systems Engineering (3 cr.)
SYSEN 533. Deterministic Models and Simulation (3 cr.)
**Newly added electives** (petition needed)
(available in the Business Sustainability Strategy Certificate, Smeal College of Business):

MGMT 811. Sustainability Strategy Development (3 cr.) - Fall  
MGMT 831. Strategy Implementation and Organizational Change (3 cr.) - Fall  
SCM 813. Sustainable Supply Chain Management (3 cr.) - Spring