In addition to the new curriculum, all Ph.D. students must fulfill the Graduate School’s minimum credit requirement: a minimum of 32 credits of graduate course work (300 level and above) must be taken at UW-Madison prior to achieving dissertator status. The credits for a environment and resources Ph.D. degree are distributed among four categories to provide both depth and breadth in knowledge related to environment and resource problems.

**Category 1:** A minimum of 9 credits for the Ph.D. is required in natural science (physical and/or biological sciences).

**Category 2:** A minimum of 9 credits for the Ph.D. is required in social science and/or humanities.

**Category 3:** A minimum of 9 credits for the Ph.D. is required in measurement and analysis. Examples of study areas include statistics, mathematics, quantitative analysis, remote sensing, cartography, modeling, computer sciences, and methodology.

**Category 4:** A minimum of 15 course credits plus 2 seminars (e.g., Envir St 992/993 are strongly recommended) and a variable number of research credits (Envir St 990) are required in the individual program focus. Courses in this category should reflect a cohesive area of study. Seminars taken for credit may be used in this category. Up to 9 credits can be double counted from a breadth category.

Because the environment and resources Ph.D. curriculum is interdisciplinary, a minor is not required. However, students who wish to pursue a minor can obtain additional information from the Academic Programs Office.

Normally students are allowed to count up to 24 course credits toward their environment and resources Ph.D. from a related master’s degree; additional credits may be considered if approved by the program chair. Typically these credits do not include research credits. There are a minimum number of credits in each category which must be taken on this campus:

- **Category 1:** Three credits
- **Category 2:** Three credits
- **Category 3:** Three credits
- **Category 4:** Six credits of course work plus two seminars and a variable number of research credits (i.e. Envir St 990)

It is strongly recommended that one or both of the two seminar requirements be completed using Envir St 992 (Special Topics in Environment and Resources) and Envir St 993 (Research Methods in Environment and Resources. The focus of at least one should be on research methods.
If you plan to enroll for Envir St 990 (research), please contact timetable@nelson.wisc.edu for enrollment permission. Computer authorization for Envir St 990 is required each semester a student intends to enroll for research. Once authorized, the student can then enroll for “990” credits. The environment and resources course requirements can be filled from a variety of departments on campus. A list of courses typically used by environment and resources students for meeting the requirements of the first three categories is available from our Academic Programs Office and on the requirements website. This list is not all-inclusive. Final selection of courses should be made in consultation with one's faculty advisory committee.

**Note about foreign language courses:** There is no specific foreign language requirement. Furthermore, language courses may not be substituted for environment and resources requirements. However, a student who intends to conduct research in a foreign language area must demonstrate the necessary language proficiency.