

Request for Proposals:

The Graduate College and the Office of the Vice President for Research wish to support funding for:

Creating Hybrid Curriculum Modules Related to Student Learning Outcomes in *International Research Collaborations*

APPLICATION DEADLINE: WEDNESDAY, MARCH 27, 2013

Purpose

The purpose of this proposal is to increase integrity in research and scholarship (responsible conduct of research) in graduate education and help train new generations of graduate student researchers in the area of research ethics as they prepare to work in international research settings. NAU was one of five institutions selected by the Council of Graduate Schools (CGS) to participate in the [Modeling Effective Research Ethics Education in Graduate International Collaborations](#) project.

In order to develop a strong institutional model that can prepare graduate students to effectively work within a broad range of cultural issues in international research collaborations, this call for proposals will help us identify faculty who will:

- 1) Develop student learning outcomes in the area of research integrity issues in international collaborations or settings or in the engagement of international students in research endeavors
- 2) Develop hybrid learning modules using *Blackboard Learn* (mixed delivery methods including online and face-to-face) in research and scholarly integrity
- 3) Assess student understanding in the core areas and revise the learning modules based on assessment findings
- 4) Participate in the training of faculty mentors who have direct contact with US and international students across campus and are in the position to advise and mentor students in the area of research integrity.

Proposal Requirements

Faculty members with experience in international research collaborations or working with international students are invited to develop hybrid modules of curriculum development related to student learning outcomes in the core areas of research integrity from a disciplinary and interdisciplinary framework in order to benefit graduate students participating in international research collaborations. Student learning outcomes are an integral part of our culture and are a critical part of our curriculum and program development processes. Researchers who have gained experience while conducting research involving international partners and in international settings, and who understand the challenges, are encouraged to apply.

These learning modules will address skills, knowledge, and attitudes related to the learning outcomes in the core areas of:

- 1) Collaborative Research;
- 2) Conflicts of Interest and Intellectual Property;
- 3) Publication Practices and Responsible Authorship; and
- 4) Resources and Materials: Access, Sharing, and Exchange.

Modules should give special attention to the areas of cultural context, research practices, and ethical practices for each core area.

Each hybrid module will include an online component with information related to the core areas within a disciplinary/interdisciplinary framework and be followed by a face-to-face workshop. A key component of these hybrid modules should be an emphasis on providing information on the four core areas and including case studies for new researchers who will be working in interdisciplinary, inter-institutional, and international contexts. Another important component of these training modules is to *understand the role of cultural differences and cross-cultural communications* in research collaborations. Assessing student understanding of the core areas is an important part of each module. With assistance from the NAU Office of Curriculum, Learning Design, and Academic Assessment (OCLDAA), faculty will develop plans to assess student understanding of the learning objectives for each module. Modules will be evaluated by students who complete the modules and this feedback will be used to make modifications and revisions as needed.

Faculty members who are selected to develop these modules must commit to the following requirements:

- (a) Attend a workshop focused on identifying and developing specific learning outcomes to benefit graduate education in research and scholarly integrity in international collaborations. The workshop is an all-day event to be held on **Friday, April 19th**. Participants include faculty members who are selected to develop modules, faculty members with considerable experience in international research, graduate students with similar experience, international graduate students, administrators from relevant offices across campus, and other interested individuals.
- (b) Attend a group meeting prior to the development of these hybrid modules. Faculty members will discuss their plan, the content that they plan to include in their module, and which of the learning outcomes they intend to include. Assistance will be provided to the group to efficiently sequence curricular content and reduce redundancy among the different modules.
- (c) Develop the module during the summer 2013 semester with a completion date of **August 1, 2013**. Approximate length for the module should be approximately 2-3 hours. These modules will also be made available to other faculty who teach research methods classes to augment their existing courses and to the Council of Graduate Schools (the funding agency). Module content will be reviewed by the authors of the proposal (Ramona Mellott and Nanda Gudderra) and OCLDAA to ensure consistency and relevancy of module content and its relation to the established learning outcomes.
- (d) Offer a one-hour face-to-face workshop related to the module twice during the 2013-14 academic year. Workshops may be scheduled at your convenience.
- (e) Revise module content following the face-to-face workshop based on assessment and feedback received.
- (f) Consider participating in the mentoring training workshop.

Faculty members who have no prior experience with *Blackboard Learn* will need to complete training. For more information on training dates, visit <http://www2.nau.edu/~d-elearn/training/index.php>. To facilitate the development of the online modules, E-Learning provides a stipend of \$200 to faculty who complete 4 of the 6 workshops.

Program Eligibility

NAU faculty members (fulltime or part-time) and other qualified research personnel with teaching experience may serve as the PI or a Co-Investigator on a proposal. Please contact Ramona Mellott (3-6534) if you have questions regarding eligibility.

Financial Support

Funds will be awarded to support faculty participation in the development and delivery of the hybrid modules. The total funding for each proposal to develop a single hybrid module is \$2,500, which may be used to cover either a faculty stipend and/or other personnel costs for the development of a single module and to fulfill all the commitments outlined in the Proposal Requirements section, including offering the face-to-face workshop twice during the 2013-14 academic year. We expect to fund at least four proposals.

Terms of Awards

The grant/program shall commence on **April 15, 2013**, and is funded for up to one year. Specific terms include:

1. Attending the learning outcomes workshop on **April 19, 2013**
2. Developing the module during Summer 13 with a completion date of **August 1, 2013**
3. Offering the face-to-face workshop twice during AY 2013-14
4. Considering participation in the mentoring workshop during AY 2013-14

Initial payment will occur immediately upon review and approval of the completed module in August 2013 (\$1,800). A second and final payment of \$700 will occur after the face-to-face workshops have been offered, and the module content has been revised based on the feedback received following the workshops.

Assurances and Compliance Issues

Projects involving the use of human subjects must be reviewed by the Institutional Review Board (IRB) to ensure compliance with federal regulations and with guidelines established in the NAU Faculty Handbook and detailed on related Internet web sites. **Please note that approval from IRB must be obtained before the project can begin or award funds can be released.**

Application Guidelines

Applications must be prepared and submitted according to the requirements set forth below. Applications that do not strictly adhere to the formatting, page limitations, and electronic submission instructions described below will not be reviewed.

Page Formatting

Page size: 8 ½" x 11" paper, portrait orientation
Margins: 1" margins on all sides
Font: Arial/Times New Roman, 12 point
Spacing: Single-spacing
Page limit: 5-7 pages

Proposal Components

The proposal should include the following information:

1. Project Summary/Abstract: 1500 character limit
2. Narrative (2-3 pages)
 - a. *Introduction to the Module:* Describe the content of the module; in broad terms, what learning outcomes and core areas will the module address; what type of case studies will be included (please note that specific learning outcomes will be developed during the April 19th workshop).

- b. *Development plan for the module*: Describe methods to be used to create the module; include the timeline for the creation of the module and resources to be used.
 - c. *Qualifications to develop the modules*: Describe experiences in international research and commitment to research integrity education and experience with *Blackboard Learn*. (If the faculty member has limited experience with online teaching, indicate timeline to acquire training through E-Learning to become familiar with *Blackboard Learn*).
 - d. *Benefits of the module*: Describe the benefits for students involved in international research; include the methods used to assess the success of the module
 - e. *Budget*: A statement explaining how the funds will be used.
 - f. *Summary*
3. Brief CVs for PI and Co-Investigators (Limit: 2 pages each): All formats must conform to page formatting guidelines above.
 4. Endorsement of the unit leader (i.e., chair/director) or dean
 5. Signed statement of commitment indicating willingness to participate in all required elements of the project (see page 5).

Application Submission

All components of the proposals should be combined into one PDF and sent electronically to [Kirsten Slaughter-Rice@nau.edu](mailto:Kirsten.Slaughter-Rice@nau.edu) no later than Wednesday, March 27th. For questions, call 928-523-4338.

Application Review

Proposals that address each of the core areas from both a disciplinary and interdisciplinary standpoint as they impact international perspectives are encouraged. Approximately four awards will be made. Ideally, awards chosen will represent one or more of the broad disciplinary areas across NAU including but not limited to biological and natural sciences, physical sciences, engineering, humanities/arts, and social sciences/education.

The following additional criteria will also be used to evaluate proposals:

1. Significance of the proposal
2. Impact of the proposal
3. Experience in the area of international research collaborations or working with international students
4. Commitment to research and scholarly integrity training

Review Process

Applications will be reviewed by a small group of NAU faculty, including the Associate Vice President for Research and the Dean of the Graduate College. Individuals selected will be informed no later than **April 5th**.

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STATEMENT OF COMMITMENT

If funded, I, _____ agree to the terms of conditions for this proposal, which include the following (please initial by each term):

- _____ Attend the learning outcomes workshop on **April 19, 2013** (tentative: 10:00 am and 4:00 pm).
- _____ Develop the module during Summer 2013 with a completion date of **August 1, 2013**.
- _____ Review module content with the project authors (Ramona Mellott and Nanda Gudderra) to ensure consistency and relevancy of module content and the OCLDAA to review content in relation to learning outcomes.
- _____ Offer the in-person workshop twice during AY 2013-14
- _____ Work with the OCLDAA and the Graduate College to review evaluation feedback to help with the revision of the module.
- _____ Modify the module content based on the feedback.
- _____ Module content is made available to other NAU faculty and CGS who is the sponsor of the project.

Name

Signature

Date