STEM Faculty Mini-Grant Program

Increasing the STEM Pipeline through Instruction, Engagement and Impact

Post Award Overview

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Presentation Outline

• The USG STEM Initiative II Overview
• The GPC Faculty Mini-grant Program
  – Overview
  – Data reporting
  – Deadlines
• FAQs
• Contact information
USG STEM INITIATIVE II
OVERVIEW
USG STEM Initiative II Overview

• Program Summary¹
  – State of Georgia has a pressing need for science, technology, engineering, and mathematics (STEM) graduates
  – Demand to improve the quantity and quality of the State’s P-12 science and mathematics teachers.

• Solution - ¹University System of Georgia’s (USG) STEM Initiative
  – Increase the number of students prepared for and enrolled in STEM degree programs.
  – Improve academic performance and success rates in these fields.
GPC STEM FACULTY MINI-GRANT PROGRAM OVERVIEW
GPC Faculty Mini-grant Program
Overview

• Response to the University System of Georgia STEM Initiative II
• The GPC Faculty Mini-Grant Program provides funds for the 2012-2013 academic year to support research-based projects that increase student learning and positively impact student performance in STEM courses
• Proposals are in the area of improving STEM education in critical gatekeeping courses and advanced discipline-specific courses
Goal and Objective of the GPC Mini-Grant Program

• Goal
  – Support faculty who engage in innovative research-based projects that:
    • Improve instructional delivery and educational outcomes
    • Enhance student learning experiences
    • Impact student performance

• Objective
  – Increase by 10% the number of students who demonstrate satisfactory performance (A, B, C) in the overall course, on an educational unit, or course topical area
Evaluation Plan

• Determine the **impact** of proposal activities
• Things to consider:
  – Data to be collected
  – The instrument(s) used to collect the data
  – How the data will be analyzed
  – How the data will be reported
Reports

• Update on project activities is due Friday, December 7, 2012.
• A final report on project activities is due Friday, May 10, 2013.
• Update reports may be requested prior to this date to comply with USG requests.
Update

• **Structured Abstract**
  – *Purpose/Objective/Research Question/Focus of Study*: Description on what the research focused and/or why.
  – *Setting*: Specific description of research environment.
  – *Population/Participants/Subjects*: Description of study participants: who (or what), how many, key features.
  – *Intervention/Program/Practice*: Specific description of the intervention, including what it is, how it will be administered, and its duration.
  – *Research Design*: Description of the research design (i.e., qualitative case study, quasi-experiment, secondary analysis, analytic essay, randomized-controlled field trial).
  – *Data Collection and Analysis*: Description of the plan for collecting and analyzing data, including a description of data.
  – *Findings/Results*: Description of main findings with specific details.
  – *Conclusions/Recommendations*: Conclusions and recommendations of Principal Investigator(s) based on findings and overall study.

• **Budget**
Final Report

• Results
  – *Purpose/Objective/Research Question/Focus of Study*: Description on what the research focused and/or why.
  – *Key Research/Pedagogical Outcomes*: outcomes as they relate to purpose/objective
  – *Findings/Results*: Description of main findings with specific details.
  – *Conclusions/Recommendations*: Conclusions and recommendations of Principal Investigator(s) based on findings and overall study.
  – If intervention was class-related:
    • Courses taught
    • Total number of students taught in the courses
    • Grade distribution (A-F, I, W, WF) in courses taught

• Budget
SUBMISSION PROCESS
Submission Process

- Word document
  - Update – Friday, December 7, 2012
  - Final report – Friday, May 10, 2013

Submit materials to
Office of STEM Initiatives, Decatur Campus
gpc.stem@gpc.edu
Frequently Asked Questions

• Can project activities extend for more than the 2012-2013 academic year?
• Can I get paid for developing course material?
• What happens if my collaborators drop out?
• Can I purchase supplies/equipment for the classes that I teach?
• Do I need to submit an IRB form?