

IITG Project Outcomes Form - Report Outcomes : Entry # 219

Name of person reporting outcomes

Aaron Heap1

Email

heap@geneseo.edu

IITG Project Title

2014-Geneseo-Heap-A Digital "ProofSpace"

1st Choice:

Connected Learning- Flipped Classroom

2nd Choice:

Instructional Technologies- OER

3rd Choice:

Learning Environments- Learning Space

What recommendations would you make to scale-up or share your project more broadly (within an educational sector, or perhaps SUNY-wide)?

We see two major areas for project growth. Firstly, the lessons learned through the project can be extended to create useful professional development opportunities that help faculty in (a) thinking critically about designing of videos and subsequently executing those designs and, (b) integrating the designs of others (i.e. OERs such as ProofSpace) into their classrooms most efficiently and effectively. This scaling-up will have far-reaching steps towards supporting sustainability and usefulness in innovations of this sort (as well as laying the groundwork for flipping courses beyond the Introduction to Mathematical Proofs course).

Secondly, ProofSpace leaves us unprecedentedly well-positioned to begin offering a fully-online Introduction to Mathematical Proofs course. This is especially exciting in that such a course will promote system-wide cooperation by having students from different SUNY institutions collaborate online in their Introduction to Mathematical Proofs or Mathematical Reasoning courses and hopefully remain collaborative throughout their mathematical careers. Such a course will also be well-suited for catering to learners of diverse backgrounds and levels of mathematical sophistication.

If you would like to create a community of practice within the SUNY Learning Commons, please describe "members of your community" who would be most interested in your outcomes. Please be specific (e.g., math faculty, instructional designers, student services, registrars, administrators, accreditation or assessment specialists).

Math faculty, math students

Do you intend to create an ongoing "Community of Practice" within the SUNY Learning Commons to continue work and dialog regarding this project?

Unsure at this time

Overall, how successful was IITG in meeting your project goals? (You may elaborate on your response in the final question if not addressed elsewhere.)

Extremely successful

Do you wish your current abstract to be used?

No

If you wish to re-word the abstract to reflect updates or outcomes, you may do so in this text box (please keep it brief – less than 150 words - you can expand on this in your files and links)

In many ways, the Introduction to Mathematical Proofs course is a first course in mathematical writing. Analogous courses are offered in math departments throughout the SUNY system. The skills and content a student learns in this course are recalled, reframed, revisited, and revitalized as they continue their mathematical journey. To support students' retention of ideas and methods from this course, we have designed an online repository of resources, called ProofSpace, to help facilitate the use of the flipped classroom format in some sections of SUNY Geneseo's Introduction to Mathematical Proofs course. We hope these open resources will be used at other institutions as well.

File One Upload and Brief Description

The full website ProofSpace can be found here: <http://www.geneseo.edu/proofspace>
The attached file is a brief description of ProofSpace.

File One

- [ProofSpace.pdf](#)

File Two Upload and Brief Description

The attached file provides a link that advertises ProofSpace.

File Two

- [Sundstrom.pdf](#)

Project Website Address (Hyperlink 1)

<http://www.geneseo.edu/proofspace>

Hyperlinks to journal articles or campus/local/national press releases describing your project

<https://sites.google.com/site/mathematicalreasoning3ed/resources-for-an-introduction-to-proofs-course>

Any additional comments or resources you wish to share?

We are currently in the process of interviewing project participants and will submit relevant findings as they become available.

Consistent with the RFP, you must indicate which Creative Commons license you intend to use.

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