**Science and Math Division Meeting Agenda**

**Aug. 31, 2016**

Announcements and Opportunities

NSF IUSE grant. We (Jackie, Pam, and Michael Roberts) received the IUSE Grant!

Goals:

1. Transition our emerging learning community into a genuine learning community (continue Brown Bags and divisional meetings, institute reading and pedagogical research groups)
2. Transform general education STEM courses using evidence-based practices
   1. 3-day summer workshops to which faculty from nearby institutions will be invited, using their schools as comparisons for our process (individuals, departmental teams, and interdisciplinary teams are welcome)
   2. **Curricular Reform Awards** ($1250) for faculty (or teams) to revise their intro courses or develop team-taught interdisciplinary courses (30; $750 for attending a 3- day summer workshop and $500 for revised, completed course/syllabus; liaison group makes funding decisions)
   3. **Paradigm Shifts Awards** for faculty to participate in the interdisciplinary pilot courses; $1250 for a 1-week summer/January term course development workshop; spring 2017, fall 2017, and spring 2018, four faculty will receive 0.5 teaching credit for participating in two sections; for fall 2018, four faculty members will receive 1.0 teaching credits for participating in four sections.
3. Assess—work with administration to make science and math attitude and literacy assessment a regular occurrence and with the outside assessment firm Rockman et al.

HHMI *Inclusive Excellence* grant proposal strategies.

Inclusive, student-centered teaching practices (workshops, team grants)

More genuine research experiences in introductory laboratories

The Peer STEM Guide program (successful students serving as mentors/tutors to students in intro SM courses)

Creating community and science and math identity among STEM majors

Focus groups with students to learn about their experiences in DePauw SM classes

Divisional goals for the year.

--Our Faculty Fellowship is focused on improving SM gen ed. The division has tentatively agreed on divisional learning goals, but can we show evidence that they’ve genuinely been adopted? Has instruction and student experience in the courses changed? How do we move to implementation, getting more faculty on-board?

--If we believe it will help better meet our divisional gen ed learning goals, how do we change DePauw’s SM gen ed requirement? What about a math/Q learning goal that parallels the other divisional learning goals? Adding a lab requirement? How do we move this through the Curriculum Committee and gain approval from the majority of faculty?

Ideas for other issues?

**HHMI Discussion**

How do you see your department being able to contribute to the proposed HHMI strategies?

If you identify challenges/roadblocks to successfully implementing our proposed strategies, how could we revise them to address your concerns?

**Science and Math General Education Discussion**

How do we move forward in formally adopting our tentative divisional goals and then implementing them in our instruction?

How do we ensure students take the courses that meet our learning goals? Does this require a change to DePauw’s science and math general education requirement?

**Interest form**

NSF IUSE grant.

Interest in presenting at a Brown Bag lunch?

Interest in leading a reading group or a reading group session?

Interest in revising a current course or teaching a new course for a **Curricular Reform Award**?

Departmental—

Interdisciplinary—

Interest in developing a module for a **Paradigm Shifts Award**?

General, but semester unknown:

Spring 2017:

Fall 2017:

Spring 2018:

Fall 2018:

**HHMI Interest form**

HHMI *Inclusive Excellence* grant proposal.

Implementation team. The HHMI guidelines ask for names and information on up to 25 individuals who will “provide leadership in implementation of the proposed grant activities.”

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