GK12 Global Watershed: Expectations of Fellows
Fellows: General Expectations

- Develop life-long commitment to effective communication of scientific research to the public.
- Act as the “visiting scientist” in your classroom(s).
  - Bring your *watershed science* research topics into the curriculum, to provide context.
  - Demonstrate *how scientists conduct research*.
- Act as a resource for your teacher.
- Through acting as a role model, “recruit” students into STEM careers.
Fellows: General Expectations

- Develop skills in
  - developing and delivering classroom activities, lessons and units
  - communicating science
- Weave Native American perspectives on the environment into classroom.
- Interact with other fellows.
Fellows: General Expectations

- Participate in MTU and NSF project evaluation activities.
- Help teachers develop network with other “local” scientists.
- Deliverables:
  - 2 watershed units
  - Write-up of activities, other lesson plans.
  - Journal paper(s) on watershed units and/or activities
Fellows- Summer Year 1

- Attend workshop.
- Develop a schedule for attending your school and working with your teacher.
  - Fellows’ classroom responsibility follows MTU calendar, but should coordinate with teacher.
Fellows- Fall Year 1

- Take two courses
  - ED5580 Science Instruction, CRN 84144, 2.0 cr, T, 10:05 am-11:55 am
  - ED5581 Communicating Scientific Research, CRN 84145, 1.0 cr, T, 9:05 am-9:55 am
- Spend at least 10 hours/week at your school.
- First day: give a talk about yourself, why you chose your career, and what it means to be a scientist.
- Observe in classroom.
Fellows- Fall Year 1

- Inform teachers about your research topics.
- Become familiar with teachers classes and curricula.
- Become familiar with teachers’ LSSI projects.
- Work with teacher to develop and deliver activities.
- Deliver 8-10 lessons from “MEECS” curriculum.
  - work out logistics of fitting MEECS lessons into class curricula.
- Maintain journal.
Fellows- Fall Year 1

- Keep advisor informed of your GK12 activities.
- Meet bi-weekly with Alex.
- Participate in informal afternoon sessions for exchanging information with other fellows and teachers.
Fellows- Spring Year 1

- Continue
  - Spend at least 10 hours/week at your school.
  - Work with teacher to develop and deliver activities.
  - Deliver 8-10 lessons from “MEECS” curriculum.
  - Meet bi-weekly with project director.
  - Keep advisor informed of your GK12 activities.
  - Maintain journal.
- Develop watershed unit and learning outcomes assessment with Shawn.
- Prepare for and attend NSF National GK12 conference.
Fellows- Summer Year 2

- Informal participation in workshop.
- Develop a schedule for attending your school and working with your teacher.
Fellows- Fall Year 2

- Continue
  - Spend at least 10 hours/week at your school.
  - Work with teacher to develop and deliver activities.
  - Meet bi-weekly with project director.
  - Maintain journal.
  - Keep advisor informed of your GK12 activities.
- Deliver and refine watershed unit and learning outcomes assessment.
  - Watershed unit posted on website.
Fellows- Fall Year 2

- Develop 2\textsuperscript{nd} watershed unit and learning outcomes assessment.
- Involve teachers and students in your research.
Fellows- Spring Year 2

- Continue
  - Spend at least 10 hours/week at your school.
  - Work with teacher to develop and deliver activities.
  - Meet bi-weekly with project director.
  - Keep advisor informed of your GK12 activities.
  - Involve teachers and students in your research.
  - Maintain journal.
Fellows- Spring Year 2

- Deliver and refine 2\textsuperscript{nd} watershed unit and learning outcomes assessment.
  - Watershed unit posted on website.
- Develop journal paper.
- Prepare for and attend NSF National GK12 conference.
GK12 Global Watershed: Expectations of Teachers
Teachenrs: General Expectations

- Act as teaching mentors for fellows.
- Find time in your busy schedules to work with fellows.
- Learn about watershed science research from fellows.
  - Topical content
  - Research methods
- Co-develop classroom materials with fellows
  - especially the two watershed science units
- Keep your administrators informed.
Teachers: General Expectations

- Participate in project evaluation activities.
- Confirm the fellow’s activities in your school by reviewing journal periodically.
- Attend NSF GK12 national meeting.
- Work with fellows to develop and submit journal paper(s).