

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 2nd 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 2nd 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

Teachers: 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).