

Carbon TIME Teaching Expectations for 2016–18

A National Science Foundation (NSF) grant awarded to Michigan State University several years ago allowed us to launch the initial *Carbon: Transformations in Matter and Energy (Carbon TIME)* curriculum project. We are happy to report that a second project has recently been funded by NSF, enabling us to continue development and dissemination work through 2019. The new project will include revising and expanding *Carbon TIME* units, creating an online professional development course, and creating local support networks for teachers using *Carbon TIME*. The networks commenced in the spring of 2015 and we will be adding a second set of cohorts from 2016–2018.

Who is eligible?

Middle and high school science teachers who teach science to at least 25 students each year are eligible to join a network. Each network will include a cohort of 12 teachers in the same region who will meet together and collaborate. Teachers must be able to collect and share student data as well as share information about their experiences teaching *Carbon TIME*. Data about collaborating teachers is also collected as a part of our research. Teachers must have access to a computer lab to administer student tests at least 8 times during each project year.

Expectations and Benefits

Carbon TIME assumes a two-year commitment from teachers. Participating teachers will be compensated contingent upon completion of the activities listed below. Payment will be invoiced for the activities noted, and paid upon completion of all tasks in each time period.

SPRING 2016

- Register on the *Carbon TIME* website carbontime.bscs.org, the Learning Management System (LMS), and complete project administrative and contract documents
- Sign an electronic teacher research consent form and obtain permission to teach units and conduct data collection from your school principal or other relevant administrator for entire project period
- Administer the Overall Pre-test to students through the NREL online testing site (assessing at least 25 students in one or more classes)
- Answer questions about current content taught, teaching practices, and goals for teaching content related to *Carbon TIME* (via two online surveys and possibly an interview)

Total Payment: Invoice 1: \$200

SUMMER 2016

- Online preparation for professional development on the LMS (2 hours)
- In person (2 days) professional development
- Complete the Knowledge and Network Survey (1 hour)
- Online preparation for teaching units on the LMS (6 hours)
- Mini-grant for supplies and materials*

Total Payment: Invoice 2: \$450

*Mini Grant: \$300 for classroom teaching materials and supplies



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FALL 2016/SPRING 2017

- Administer the Overall Pre-test to students through the NREL online testing site
- Teach at least 3 *Carbon TIME* units to a total of at least 25 students in one or more classes
- Administer unit pre/post-tests (at least 6 tests total) to your students
- Answer questions about current content taught, teaching practices, and goals for teaching content related to *Carbon TIME* (via two online surveys and possibly an interview)
- Online (13 hours) professional development to prepare for and reflect on teaching the 3 units.
- One day in person professional development (payment to sub or meeting after school or on weekend)
- Administer the Overall Post-test to students.

Total Payment: Invoice 3: \$500 + either a paid substitute or per diem for professional development

SUMMER 2017

- In person (1 day) professional development
- Online (4 hours) professional development
- Complete the Knowledge and Network Survey (1 hour)

Total Payment: Invoice 4: \$250

FALL 2017/SPRING 2018

- Administer the Overall Pre-test to students through the NREL online testing site
- Teach at least 3 *Carbon TIME* units to a total of at least 25 students in one or more classes
- Administer unit pre/post-tests (at least 6 tests total) to your students
- Answer questions about current content taught, teaching practices, and goals for teaching content related to *Carbon TIME* (via two online surveys and possibly an interview)
- Online (10 hours) professional development to prepare for and reflect on teaching the 3 units.
- One day in person professional development (payment to sub or meeting after school or on weekend)
- Administer the Overall Post-test to students.

Total Payment: Invoice 5: \$400 + either a paid substitute or per diem for professional development

Total compensation: \$1800 + substitutes or per diems (total does not include mini grant)

Additional Opportunities

We are looking for a small number of focus teachers to work with an assigned coach for one year; the coach will videotape classroom lessons and conduct interviews with focus teachers and their students. Focus teachers will be compensated an additional \$600 for intensive collaboration.

We are also looking for teachers to administer ACT Tests to their students at no cost.

Project Staff

Network leaders and project management (envlit@msu.edu) will be the initial contact for teachers taking advantage of this opportunity. Management will be responsible for consent forms, finances, and logistics. Network leaders or project management can also connect teachers with other *Carbon TIME* staff members to answer questions about science content or teaching strategies.



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