

**GeoTech Consortium of Western New York (GTCWNY) and MCC hosts:  
Fall Professional Development Workshop (cohort 1)**



**What needs to happen if you want to teach GEG 130 as a dual credit class?**

**Timeline**

- 1) Implement the ArcGIS Online activity (all participants should do this)
- 2) Seek admin support.
- 3) Register for GEG 130 as early as late November. One should register by ~ Dec 20.

Register at: <http://www.monroecc.edu/depts/recreg/classortwo.htm>

- 4) Install ArcGIS 10.2.2 on the teacher's laptop/computer. It should be installed on the computer the teacher plans to use when completing homework.
- 5) Take GEG 130 in the spring. It will be offered at two times:  
Mon and Wed afternoon 1-2:50 pm (Brighton campus)  
Tuesday evening 5:30-9:10 pm (Brighton campus)
- 6) Early the semester before implementation, complete the dual credit forms with me.
- 7) Promote the course early! Talk to advising. I have flyers.
- 8) A few months prior to implementation receive mentoring from me and/or Heather. This will require 2-3 meetings to get things ready.
- 9) In late August before the school year starts, meet once.

**Course description**

Introductory geospatial skills will be covered, including geography, as well as hands on use of Geographical Information Systems (GIS), GPS, and remote sensing. Topics such as sustainability, renewable energy, and the economy will be integrated into the course through the use of GIS. One project will provide students the opportunity to use geospatial technology and real data to create original maps that begin to provide a solution to a real world problem. Prior computer knowledge such as creating, saving, deleting, and locating files on a PC, as well as preparing and printing Microsoft Word documents, using Microsoft Excel spreadsheets, creating Microsoft PowerPoint slides, using e-mail and the Internet will be required to be successful in this course. This is a SUNY General Education Natural Science lab course, as well as a sustainability elective (GR).

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**High School teacher requirements to teach a dual credit course at MCC in the Geosciences**

**Department:**

Master's degree in one the geosciences (geology, geography or related subject). Bachelor's degree may be acceptable for certain courses depending upon the nature of the course and the field of expertise.

**Resources (materials and equipment needed):**

All of the materials (activities, labs, exams, project) for the class will be made available in the spring once we have made sufficient progress in the class (e.g., mid-April). It is probably best for the teacher to visit MCC, bring a LARGE flash drive (50GB) and copy the material over. This could be done after our Spring Geospatial workshop with the entire group.

**The items the district will need to provide include:**

GPS units (if you don't have these, I have another solution we can discuss), instructional technology - students computers, teachers computers, software, etc.

<> Computer lab with at least 18 seats + teacher station

<> Students should be in the computer lab for at least 3 hours a week.

<> Computer lab should have a high speed internet connection

<> Computer lab should have ArcGIS 10.2.2 installed (free through Esri K-12 initiative)

<> Computer lab should have Google Earth installed (free)

**Assessments (how administered, when, etc.)**

I will provide you with the two exams. The course information sheet breaks down the topics as well as the exams by week. Exam 1 is usually administered the 5th week of our semester, while the 2nd exam is administered the 10th week. There is no final exam. Instead, a project