



UN5390: Scientific Computing I

Fall 2016

Prep Work

Help the instructor understand your learning needs

Respond within a week of receiving this document or by June 15, 2016 – whichever is later.

1. Explain your expectations: specific goals you wish to accomplish during or as a result of completing this course
2. Do you know/use the Linux OS (command line)? If yes, assign a numerical score on a scale of 1 to 10 (1 being I just know the name of it, and 10 being I use it every day for just about everything I do)
3. Do you know any programming languages? If yes, assign a numerical score to each language on a scale of 1 to 10 (1 being I just know the name of it, and 10 being I pretty much know everything there is to know about it)
4. Have you heard of (or used) L^AT_EX document preparation system? If yes, assign a numerical score on a scale of 1 to 10 (1 being I have just heard about it, and 10 being I use it every day for just about everything I do)
5. Have you heard of (or used) a revision control system? If yes, assign a numerical score on a scale of 1 to 10 (1 being I have just heard about it, and 10 being I use it every day for just about everything I do)

Please list the contact information for your research advisor (full name, department and email address). If you don't yet have a research advisor, please list the contact information for the graduate studies director in your department/program.

Help yourself make an optimal use of this course

Complete these before the instruction begins.

1. Sign up for a free account in <https://github.com/>. Preferably, use your Michigan Tech ISO username as the username in GitHub. If you have already signed up and been using GitHub, there is no need to open a new account. Email the instructor your username to receive an invitation to join the **MichiganTech** organization in GitHub

- (a) Use the link below to accept the invitation

<https://github.com/MichiganTech>

- (b) Make your profile public and update it

<https://github.com/orgs/MichiganTech/people>

<https://github.com/settings/profile>

You are representing yourself, me, this course, your advisor, department/program, and the Michigan Tech at GitHub. Use your full/preferred (yet professional) name for **Name**, Michigan Technological University for **Company**, Houghton, MI for **Location** and a professional photograph (guidelines: [#1](#) | [#2](#)).

GitHub is providing the university private repositories free of cost (through my collaboration; worth several thousand \$ each year). A wise and professional use will continuously show GitHub that we are worthy of their investment

- (c) Do not edit the contents of the course repository until the instruction begins.

Read through the PDFs in **PrepWork/RequiredReading** folder. Work through the tasks listed in **PrepWork/TrainingCamp** folder. These are intended to familiarize you with the Linux OS, vim editor, L^AT_EX document preparation system and Git revision control system

2. Familiarize yourself with one or more programming languages – guided by their applicability to your research endeavors, and their potential for parallelization (e.g., C/C++, FORTRAN, Julia, MATLAB, Python, etc.)
3. Acknowledging that you need help and asking for it when necessary is not a sign of weakness. Be sure to appropriately cite the source of any such help. Practice your verbal and written communication skills.

Michigan Tech Multiliteracies Center

<http://www.mtu.edu/humanities/mtmc/mission/>

Purdue University Online Writing Lab

<http://owl.english.purdue.edu/owl/>