## GEOL101: Physical Geology

Instructor: Dr. Alan Cutler

Lecture: Mon, Wed 11:00 AM - 12:15 PM

Text: Essentials of Geology (12 ${ }^{\text {th }}$ ed.), Lutgens et al
Lab: Mon, Wed 12:30 PM - 1:45 PM

Room 404 Science Center

| Week | Day | Date | Lecture Topic | Reading | Lab Topic |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Mon Wed | $\begin{aligned} & \text { 21-Jan } \\ & 23-J a n \end{aligned}$ | MLK Day Introductory | Ch. 1 | MLK Day Google Earth |
| 2 | Mon <br> Wed | $\begin{aligned} & 28-J a n \\ & 30-\mathrm{Jan} \end{aligned}$ | Earth System Plate Tectonics | $\begin{aligned} & \text { Ch. } 1 \\ & \text { Ch. } 2 \\ & \hline \end{aligned}$ | Intro Minerals Minerals |
| 3 | $\begin{aligned} & \text { Mon* } \\ & \text { Wed } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { 4-Feb } \\ & \text { 6-Feb } \end{aligned}$ | Plate Tectonics Minerals | $\begin{aligned} & \text { Ch. } 2 \\ & \text { Ch. } 3 \\ & \hline \end{aligned}$ | Minerals Minerals |
| 4 | Mon* <br> Wed | $\begin{aligned} & \hline 11-\mathrm{Feb} \\ & 13-\mathrm{Feb} \\ & \hline \end{aligned}$ | Igneous Rocks Igneous Rocks | $\begin{aligned} & \hline \text { Ch. } 4 \\ & \text { Ch. } 4 \\ & \hline \end{aligned}$ | Minerals QUIZ |
| 5 | Mon <br> Wed | $\begin{aligned} & \hline 18-\mathrm{Feb} \\ & 20-\mathrm{Feb} \\ & \hline \end{aligned}$ | EXAM 1 <br> Volcanoes | Ch. 5 | Rocks <br> Rocks |
| 6 | $\begin{aligned} & \text { Mon* } \\ & \text { Wed } \\ & \hline \end{aligned}$ | $\begin{aligned} & 25-\mathrm{Feb} \\ & 27-\mathrm{Feb} \\ & \hline \end{aligned}$ | Weathering and Soil Sedimentary Rocks | $\begin{aligned} & \text { Ch. } 6 \\ & \text { Ch. } 7 \end{aligned}$ | Rocks <br> Rocks |
| 7 | Mon* <br> Wed | $\begin{aligned} & \text { 4-Mar } \\ & \text { 6-Mar } \end{aligned}$ | Metamorphic Rocks EXAM 2 | $\begin{gathered} \hline \text { Ch. } 8 \\ \hline \end{gathered}$ | Rocks QUIZ |
| 8 | Mon Wed | $\begin{aligned} & \text { 11-Mar } \\ & \text { 13-Mar } \end{aligned}$ | SPRING BREAK |  |  |
| 9 | Mon <br> Wed | $\begin{aligned} & 18-\mathrm{Mar} \\ & 20-\mathrm{Mar} \\ & \hline \end{aligned}$ | Geologic Time Geologic Time | $\begin{aligned} & \text { Ch. } 18 \\ & \text { Ch. } 18 \\ & \hline \end{aligned}$ | Geologic Time Geologic Time |
| 10 | Mon* <br> Wed | $\begin{aligned} & 25-\mathrm{Mar} \\ & 27-\mathrm{Mar} \\ & \hline \end{aligned}$ | Earthquakes <br> Earthquakes | $\begin{aligned} & \text { Ch. } 9 \\ & \text { Ch. } 9 \\ & \hline \end{aligned}$ | Topo Maps Topo Maps |
| 11 | Mon* <br> Wed | $\begin{aligned} & \text { 1-Apr } \\ & 3-\mathrm{Apr} \end{aligned}$ | Geologic Structures Geologic Resources | $\begin{gathered} \text { Ch.11 } \\ \text { 7.5,7.9,3.9,4.9,6.10 } \end{gathered}$ | Geol. Structures Geol. Structures |
| 12 | Mon* <br> Wed | $\begin{array}{r} 8-\mathrm{Apr} \\ 10-\mathrm{Apr} \end{array}$ | Geologic Resources EXAM 3 | 7.5,7.9,3.9,4.9,6.10 | $\begin{gathered} \text { QUIZ } \\ \text { TBA } \\ \hline \end{gathered}$ |
| 13 | Mon Wed | $\begin{aligned} & 15-\mathrm{Apr} \\ & 17-\mathrm{Apr} \\ & \hline \end{aligned}$ | Mass Wasting \& Erosion Rivers | $\begin{aligned} & \text { Ch. } 12 \\ & \text { Ch. } 13 \\ & \hline \end{aligned}$ | Rivers Rivers |
| 14 | Mon* <br> Wed | $\begin{aligned} & 22-\mathrm{Apr} \\ & 24-\mathrm{Apr} \\ & \hline \end{aligned}$ | Shorelines Glaciers | $\begin{aligned} & \text { Ch. } 17 \\ & \text { Ch. } 15 \\ & \hline \end{aligned}$ | Shorelines Glaciers |
| 15 | Mon* Wed | $\begin{gathered} \text { 29-Apr } \\ \text { 1-May } \\ \hline \end{gathered}$ | Glaciers Climate Change | $\begin{aligned} & \text { Ch. } 15 \\ & \text { Ch. } 20 \\ & \hline \end{aligned}$ | Glaciers Climate |
| 16 | Mon <br> Wed | $\begin{aligned} & \text { 6-May } \\ & \text { 8-May } \end{aligned}$ | Wrap up \& review <br> EXAM 4 <br> May 8 10:15am - <br> 12:15 pm |  |  |
| *Lecture quiz |  |  |  |  |  |

## Homework Assignments

1. Smartphone Minerals. Due Monday February 11.
2. Geology News 1. Due Monday, March 4.
3. Earthquake Prediction. Due Monday; April 1.
4. Geology News 2. Due Wednesday, May 1.

Field Trip:
Extra credit field trip to Great Falls, MD, Saturday April 13, 9:00AM-1:00PM

