Course Name: Physical Geography  
Course Number: GEOG 102  
Credits: 4  
Instructor name: Dr. Andrea Allan  
Instructor email: aallan@coas.oregonstate.edu  
Link to instructor bio or website: http://ceoas.oregonstate.edu/profile/allana/  

Teaching Assistant name and contact info: Courtney van Stolk (email: vanstolc@oregonstate.edu)  

Course Description  
Processes that shape the earth’s surface. Weathering, mass movement, landforms, river systems, groundwater, biogeography, human effects on the landscape. Use of maps and imagery. Lec/lab. This class is a Baccalaureate Core Course in the Perspectives Category (Physical science with lab).  

Course Credits  
This course combines approximately 120 hours of instruction, online activities, and assignments for 4 credits.  

Learning Resources  
[Required] Christopherson, Cunha, Thomsen, & Birkeland, Geosystems Core, 1st ed. 2017 w/ MasteringGeography access. Link for purchase will be provided on the Canvas site.  

Communication Policy  
Please post all course-related questions in the General or Weekly Q&A Discussion boards in Canvas so that the whole class may benefit from our conversation. Email your instructor and/or TA for matters of a personal nature, including the text “GEOG 102” in the subject heading if you want a timely response. The instructors will reply to course-related questions and email within 24-48 hours. Assignments and grades for course activities will be returned to the students within a week of the due date, unless noted otherwise.  

Emails/questions received after 6pm Pacific Time will typically not be answered until the following day. Emailed questions that have already been answered on the discussion board likely will not be answered, so be sure to check the discussion board before sending an email! Given this is an e-campus course, I will not hold physical office hours, though you may make an appointment to FaceTime or Skype.  

Canvas  
This course will be delivered via Canvas where you will interact with your classmates and with your instructor. Within the course Canvas site you will access the learning materials, such as the syllabus, class discussions, assignments, projects, and quizzes. To preview how an online course works, visit the Ecampus Course Demo. For technical assistance, please visit Ecampus Technical Help.  

MyLab and Mastering: This class is built around the course text and related instructor-adapted online learning material. To access this material, you use the MyLab and Mastering code you received when you purchased the text or E-text from the OSU Bookshop. MyLab & Mastering material can be accessed from Canvas.
Technical Assistance
If you experience computer difficulties, need help downloading a browser or plug-in, assistance logging into the course, or if you experience any errors or problems while in your online course, contact the OSU Help Desk for assistance. You can call (541) 737-3474, email osuhelpdesk@oregonstate.edu or visit the OSU Computer Helpdesk online.

Measurable Student Learning Outcomes
Students who have successfully completed GEOG 102 will be able to:

1. Explain and apply the scientific method to earth science.
2. Define key terms used by scientists to describe the earth’s surface, processes, and techniques used to study the earth’s surface.
3. Compare and contrast mechanical and chemical weathering and describe the climatic conditions where each type would be most effective.
4. Describe the structure of the atmosphere, atmospheric and oceanic circulation patterns.
5. Describe stream action as it applies to landscape development, including sediment transport.
6. Identify features of a landscape, including oxbow lakes, dendritic drainage, soil creep, vegetation types.
7. Define alpine and continental glaciation and contrast the associated erosional and depositional features of each.
8. Apply concepts of earth science to daily life and interpret the Pacific NW landscape.
9. Make observations, analyze data, and draw conclusions.
10. Identify concepts and evidence regarding major processes, such as climate change.

The specific learning outcomes described above for this course are designed to fulfill the general Bacc Core learning outcomes for a course in physical science by exploring specific climate and climate change topics:

1. Recognize and apply concepts and theories of basic physical science. The processes that determine Earth’s climate are constrained by laws of physics including the conservation of energy, the conservation of mass, and Newton’s laws of motion. These physical conservation laws interact with one another and with chemical and biological processes to form the basis of climate system science. Students will be expected to describe essential elements of the physical basis underlying the study of Earth’s climate and to explain how different climate system components interact.

2. Apply scientific methodology and demonstrate the ability to draw conclusions based on observation, analysis, and synthesis. This class will use climate data obtained from various sources to examine hypotheses for observed and projected climate change. Some examples of data sources include proxy-based measurements of climate (e.g., from ice cores), climate model output, and observations obtained either directly (e.g., thermometer) or indirectly (e.g., satellite). Multiple analyses based on distinct, but complementary, data sources and methods will be used to analyze and synthesize the current scientific understanding of several key climate processes and their interaction.

3. Demonstrate connections with other subject areas. Understanding the past and present as well as projecting the future trajectory of Earth’s climate rely not only on the basic sciences (mathematics, physics, chemistry, and biology), but also on our ability to understand and adequately characterize technological, socioeconomic, and political changes that have an influence on the climate system. Anticipating and planning for future climate changes therefore requires cross-disciplinary and interdisciplinary approaches. Students will be expected to link concepts derived from various disciplinary perspectives to evaluate climate change science, impacts, and policy alternatives. Students will be expected to critically evaluate interdisciplinary connections using several targeted case studies.

Bacc Core
Successful completion of this course partially fulfills OSU’s Baccalaureate Core course requirements in the Perspectives category under Physical Science with Laboratory.
Evaluation of Student Performance
Evaluation will be through weekly exercises, dynamic learning modules, laboratory exercises, class discussions, one midterm exam, and a comprehensive final exam. Exams will be proctored. See below for proctoring information. The course schedule can be found on Canvas and lists the exact dates/times of the exams. The various evaluation components are weighted according to the following list:

- (10%) Participation in discussion board
- (20%) Weekly Exercises (if all completed, lowest score dropped)
- (30%) Seven laboratory exercises, each accounts for ~4.25% of your overall course grade
- (20%) Midterm Exam. Application of key concepts from roughly half of the course will be tested. The midterm will cover material from all aspects of class.
- (20%) Final Exam: comprehensive test of critical knowledge and synthesis of key concepts. The final exam will cover material from the readings, lectures, and laboratory exercises from the entire term.

Course Grades: Final grades are based on the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>&gt; 92% of points possible</td>
</tr>
<tr>
<td>A-</td>
<td>&gt; 90% of points possible</td>
</tr>
<tr>
<td>B+</td>
<td>&gt; 88% of points possible</td>
</tr>
<tr>
<td>B</td>
<td>&gt; 82% of points possible</td>
</tr>
<tr>
<td>B-</td>
<td>&gt; 80% of points possible</td>
</tr>
<tr>
<td>C+</td>
<td>&gt; 78% of points possible</td>
</tr>
<tr>
<td>C</td>
<td>&gt; 72% of points possible</td>
</tr>
<tr>
<td>C-</td>
<td>&gt; 70% of points possible</td>
</tr>
<tr>
<td>D+</td>
<td>&gt; 68% of points possible</td>
</tr>
<tr>
<td>D</td>
<td>&gt; 62% of points possible</td>
</tr>
<tr>
<td>D-</td>
<td>&gt; 60% of points possible</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 60% of points possible</td>
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</tbody>
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Course Organization
Students in GEOG 102 will work through 10 one-week modules accessible from Canvas. Each module consists of 3-4 sub-themes. Your assigned tasks include reading the text, taking notes from the text, answering a range of online exercise questions on the subthemes, and completing the assigned laboratory exercises (there is no lab the first, midterm, or last week of the term).

It should take anywhere from 10-15 hours each week to complete the required material. Some students may take less time, some may take longer. Plan your time accordingly based on your learning style, work ethic, and other obligations.

Weekly Exercises are due Friday at 11:59pm each week. Lab Exercises and Discussion Posts are due at 11:59pm on Sundays. See each assignment section below for the policy on late work.

There is midterm at the end of Week 4 and a cumulative final at the end of Week 8 on Canvas. You must arrange for a proctor to be able to take the midterm and final exam (see below for more information on this). Permission to take an exam outside of the scheduled window must be arranged well in advance.

Each module will be available two weeks in advance so you may work ahead if desired.

Week 1: Introduction to Physical Geography / Solar Energy, Seasons, and the Atmosphere
Week 2: Energy in the Atmosphere
Week 3: Pressure, Winds, & Currents / Atmospheric Water & Weather
Week 4: Water Resources
Week 5: Weathering and Mass Movement
Week 6: Stream Erosion & River Systems
Week 7: Glacial Systems
Week 8: Ecosystems & Soils
Weekly Exercises: Weekly modules have a series of interactive exercises associated with each subtheme that are due Fridays by 11:59pm. Work through the exercises -- you have three chances to get the right answer to each question. For most weekly modules, the exercises should take between 1-3 hours to complete. Late submissions will be automatically penalized at 20% for each day, meaning zero credit after 5 days late. The exercises will always be available for studying purposes. If all 10 exercises are completed, the lowest score will be dropped at the end of the term.

Laboratory Exercises: Most weekly modules include a set of laboratory exercises that are due Sunday by 11:59pm (there is no lab due the first, midterm, or the last week of class). Labs have two parts -- short answers to be uploaded to Canvas (Part A) and an online component to be completed in MyLab and Mastering accessible from Canvas (Part B). You will need a ruler, a calculator, and a protractor for some of the labs in this course. Everything else you need to complete the labs is provided through Canvas. Short video clips linked at the beginning of each lab sheet provide additional explanation or demonstration.

The labs are active learning activities and should take between 2-3 hours to complete. Plug and chug type problems are rare on the labs, and it is unlikely you will be able to find the answers anywhere on the internet. These labs require a working understanding of the concepts covered in the Canvas lectures that week in order to apply those concepts to the problems in the labs. Make sure you start working on the labs before the due date so you can get help if you need it. Lab exercises will be graded for correctness and legibility (including grammar, spelling, and appearance). You are expected to turn in work that is of high quality, as if you were submitting it to your boss or client. Poor legibility and incomplete sentences will result in a deduction of points.

Lab submission policies: Working with classmates on the labs is acceptable and encouraged, but each student must submit their own work. Lab documents are to be submitted through TurnItIn on Canvas to check for plagiarism from the internet and other students; copied work will be caught and penalized on a case-by-case basis according to the severity of the offense. Ensuring that you submit the correct lab document is YOUR RESPONSIBILITY. Submission of a blank/incomplete/incorrect document will not earn you a second chance. If a submission error is discovered (by you or the instructor) within 3 days you may resubmit the correct document according to the late lab policy, otherwise your submission will be graded in its original form.

Late lab policy: Everyone receives one no-questions-asked free pass for a late lab with no penalty up to 3 days after the due date. You must indicate your use of this pass in the assignment comments of your submission. This free pass is valid for the labs only. Additional late labs are accepted up to 3 days late with a penalty: 10% deduction within the first 24 hours after the due date, 25% deduction within 48 hours, and 50% deduction within 72 hours. Assignments will not be accepted after 3 days except in extraordinary circumstances when you have adequately communicated with the instructor.

Discussion Boards: Active participation in this course is an essential part of your grade and is partially accomplished through the discussion board in Canvas. Discussion board participation is an opportunity for you to express ideas and information in a forum comparable to a classroom discussion. A discussion board question is posted every two weeks (Weeks 2, 4, 6, 8). In order to encourage participation every student will be required to (1) post an original response to the question by Sunday of the first week and (2) post at least two substantive peer responses by Sunday of the second week. Your grade for each discussion is based on the degree to which your posts contribute to the class discussion. Although the discussion board is informal, please use proper spelling, grammar, and punctuation so that everyone can understand your ideas. Remember to always be respectful of the opinions and viewpoints of others. Late discussion posts receive zero credit, no exceptions.

Extra Credit: Each week a set of Dynamic Study Modules will be available for you to complete. DSMs are worth 2.5 points extra credit if completed by Sunday of the week they are assigned. DSMs are always available, but will receive zero credit if completed after their due date.
Course Policies

Exam Proctoring Information
Proctored exams are necessary to ensure the integrity of assessments in courses such as GEOG 102 where students are tested on the information provided in the course lectures. You must arrange for a proctor in order to access the exam. However, the proctoring process is straightforward and accommodating:

1. Identify a suitable proctor in your area and make an appointment directly with that person to take your midterms and final exam. Check the course schedule posted in Canvas for the dates the midterms and final will be open in Canvas. Exams will be available for a minimum of three days and you may take the exam at any time during that window. Permission may be granted to take an exam on an alternate date, in extenuating circumstances, if arranged well in advance with the instructor.

Acceptable exam proctors include college or university testing centers, college or university instructors, public librarians, school teachers, administrators, or counselors, educational service offices on military installations, and work supervisors (if your employer is paying for you to take this course). Unacceptable exam proctors include co-workers, friends, and relatives. Students who can come to Corvallis can take their proctored exams during testing sessions provided by extended campus, while students elsewhere can use testing centers at their nearest university or community college (see list at http://ecampus.oregonstate.edu/services/proctoring/testsites.htm). Proctoring using a webcam is available through ProctorU, a pay service: http://www.proctoru.com/oregonstate/.

2. Once you have chosen your proctor and made an appointment with that person, fill out the exam proctoring form at http://ecampus.oregonstate.edu/services/proctoring/. You will need to include the contact information for your proctor. This step is necessary so that ecampus can send your proctor the information for your exam, such as the access code. When you arrive for a proctored exam, your proctor will check your ID. You will then login to the course in Canvas, navigate to the exam, and your proctor will enter the password to open the exam. The exams in Canvas work the same way the quizzes do.

Incompletes
Incomplete (I) grades will be granted only in emergency cases (usually only for a death in the family, major illness or injury, or birth of your child), and if the student has turned in ~80% of the points possible with a passing grade (in other words, usually everything but the final exam). If you are having any difficulty that might prevent you completing the coursework, please don’t wait until the end of the term; let me know right away.

Guidelines for a Productive and Effective Online Classroom
Students are expected to conduct themselves in the course (e.g., on discussion boards, email) in compliance with the university’s regulations regarding civility. Civility is an essential ingredient for academic discourse. All communications for this course should be conducted constructively, civilly, and respectfully. Differences in beliefs, opinions, and approaches are to be expected. In all you say and do for this course, be professional. Please bring any communications you believe to be in violation of this class policy to the attention of your instructor.
Active interaction with peers and your instructor is essential to success in this online course, paying particular attention to the following:
- Unless indicated otherwise, please complete the readings and view other instructional materials for each week before participating in the discussion board.
- Read your posts carefully before submitting them.
- Be respectful of others and their opinions, valuing diversity in backgrounds, abilities, and experiences.
• Challenging the ideas held by others is an integral aspect of critical thinking and the academic process. Please word your responses carefully, and recognize that others are expected to challenge your ideas. A positive atmosphere of healthy debate is encouraged.

Statement Regarding Students with Disabilities
Accommodations for students with disabilities are determined and approved by Disability Access Services (DAS). If you, as a student, believe you are eligible for accommodations but have not obtained approval please contact DAS immediately at 541-737-4098 or at http://ds.oregonstate.edu. DAS notifies students and faculty members of approved academic accommodations and coordinates implementation of those accommodations. While not required, students and faculty members are encouraged to discuss details of the implementation of individual accommodations.

Accessibility of Course Materials
All materials used in this course are accessible. If you require accommodations please contact Disability Access Services (DAS). Additionally, Canvas, the learning management system through which this course is offered, provides a vendor statement certifying how the platform is accessible to students with disabilities.

Expectations for Student Conduct
Student conduct is governed by the university’s policies, as explained in the Student Conduct Code.

Academic Integrity
Students are expected to comply with all regulations pertaining to academic honesty. For further information, visit Student Conduct and Community Standards, or contact the office of Student Conduct and Mediation at 541-737-3656.

OAR 576-015-0020 (2) Academic or Scholarly Dishonesty:

a) Academic or Scholarly Dishonesty is defined as an act of deception in which a Student seeks to claim credit for the work or effort of another person, or uses unauthorized materials or fabricated information in any academic work or research, either through the Student's own efforts or the efforts of another.

b) It includes:
   i) CHEATING - use or attempted use of unauthorized materials, information or study aids, or an act of deceit by which a Student attempts to misrepresent mastery of academic effort or information. This includes but is not limited to unauthorized copying or collaboration on a test or assignment, using prohibited materials and texts, any misuse of an electronic device, or using any deceptive means to gain academic credit.
   ii) FABRICATION - falsification or invention of any information including but not limited to falsifying research, inventing or exaggerating data, or listing incorrect or fictitious references.
   iii) ASSISTING - helping another commit an act of academic dishonesty. This includes but is not limited to paying or bribing someone to acquire a test or assignment, changing someone's grades or academic records, taking a test/doing an assignment for someone else by any means, including misuse of an electronic device. It is a violation of Oregon state law to create and offer to sell part or all of an educational assignment to another person (ORS 165.114).
   iv) TAMPERING - altering or interfering with evaluation instruments or documents.
   v) PLAGIARISM - representing the words or ideas of another person or presenting someone else's words, ideas, artistry or data as one's own, or using one's own previously submitted work. Plagiarism includes but is not limited to copying another person's work (including unpublished material) without appropriate referencing, presenting someone else's opinions and theories as one's own, or working jointly on a project and then submitting it as one's own.

c) Academic Dishonesty cases are handled initially by the academic units, following the process outlined in the University's Academic Dishonesty Report Form, and will also be referred to SCCS for action under these rules.
Conduct in this Online Classroom
Students are expected to conduct themselves in the course (e.g., on discussion boards, email postings) in compliance with the university's regulations regarding civility.

Tutoring
NetTutor is a leading provider of online tutoring and learner support services fully staffed by experienced, trained and monitored tutors. Students connect to live tutors from any computer that has Internet access. NetTutor provides a virtual whiteboard that allows tutors and students to work on problems in a real time environment. They also have an online writing lab where tutors critique and return essays within 24 to 48 hours. Access NetTutor from within your Canvas class by clicking on the Tools button in your course menu.

OSU Student Evaluation of Teaching
Course evaluation results are extremely important and are used to help me improve this course and the learning experience of future students. Results from the 19 multiple choice questions are tabulated anonymously and go directly to instructors and department heads. Student comments on the open-ended questions are compiled and confidentially forwarded to each instructor, per OSU procedures. The online Student Evaluation of Teaching form will be available toward the end of each term, and you will be sent instructions via ONID by the Office of Academic Programs, Assessment, and Accreditation. You will log in to “Student Online Services” to respond to the online questionnaire. The results on the form are anonymous and are not tabulated until after grades are posted.