CUSP Center for University Studies and Programs

UNIVERSITY of WASHINGTON BOTHELL

Course Title: The Natural World and Composition		**Year** ___2010_____ **Quarter** __Autumn_____
Course Website: http://courses.washington.edu/bcusp101/anderson		**BCUSP** __101 (C) & 110 (B)__ **SLN#** _10728 & 10743_____
Instructors & Contact information		**Credits** ___10_____ **Areas of Knowledge** (VLPA, I&S, NW) __NW & QSR_____
Laurie Anderson Ph.D. (Composition) **Office Hours:** T/Th noon-1 **Office Hours location**: UW1-349	**Robin Barnes Ph.D. (Natural World)** **Office Hours:** T 11:00-noon **Office Hours location**: UW1-3rd floor vista	**Course Time** __T/Th 1:15-3:15 & T/Th 3:30-5:30____ **Course meets in room** __UW1-102_____

Means of Assessment:

CUSP Learning Goals (http://www.uwb.edu/cusp/learninggoals):

- Critical and Creative Inquiry
- Communication
- Quantitative and Qualitative Literacy
- Inclusive Practices
- Ethics and Social Responsibility

Course Description:

Discovery Core Sequence: The DC Sequence includes a DC I in the Fall, a DC II in the Winter, and a DC III in the spring. Each course emphasizes student creativity and analysis, interdisciplinarity, integrated learning, undergraduate research skills, and self-reflection. The sequence is capped by the spring DC III course in which you create a Portfolio that is both reflective and projective, looking back at what you have learned and ahead to the directions you'd like to explore. Read more about the Discovery Core and Advising issues at http://www.uwb.edu/cusp/courses/the-discovery-core.

The Natural World (BCUSP110) examines important discoveries in physics through explorations in history and basic mathematics. We examine seven big topics in science: the Copernican Revolution, Newtonian Mechanics, Electromagnetic Theory, Einstein's Special Relativity, the Uncertainty Principle, Quantum Mechanics, and the Big Bang.

At the end of this course, students will be able to:

- Learn to approach ideas analytically and construct cogent arguments and explanations.
- Appreciate how different approaches in thought result in different outcomes.
- Demonstrate reasoning and analytical skills through examples in the development of science.

Composition (BCUSP101) fulfills a composition requirement, offers an interdisciplinary approach to college non-fiction writing, including generating a compelling topic; the articulation of a thesis; the development of supporting evidence; the ability to draw conclusions from the evidence, clear organization of the essay, correct mechanics; awareness of audience, and knowledge of resources for research.

At the end of this course, students will be able to:

- Learn to build well-reasoned arguments while defending your viewpoint.
- Demonstrate your understanding in writing that follows structured patterns of reasoning.
- Write using clear and concise English.

Class Policies

PLEASE KEEP MATERIAL FROM ALL OF YOUR COURSES archived on the Catalyst/Google site in order to have access to them for your Spring DCIII Portfolio project**:**
http://www.washington.edu/lst/news/2010/catalyst-eportfolio

ASSIGNMENTS: Assignments are due at the beginning of the class. No late assignments accepted. Assignments accepted after one class by special permission only. Assignments are turned in on paper, printed single sided and stapled. You are responsible for maintaining electronic back-up copies of all your work.

Composition ASSIGNMENTS: You must take one of the four writing assignments to the Writing Center and work with a writing consultant. Bring two copies of your Draft papers to class on the day it is due. Turn-in your Final version (one copy) stapled to the back of my comments and your Draft version. Missing my comments from your Final version will result in a 20% deduction. If no Draft is turned in, then you receive a zero, plus 50% is deducted from your Final assignment grade.

Natural World ASSIGNMENTS: Although students will work in groups for workshops, each student must turn in their own workshop write-ups with their own unique answers. All assignments need to be retained, so they can be turned in as part of the Summary Portfolio.

FOOD: Snacking is permitted; however, please be courteous to everyone by avoiding crackling cellophane, crunchy foods, and foods with odors. Also clean up after yourself.

Attendance Policy: Since *participation is vital for a successful experience*, please *arrive on time for class.* Late arrivals interrupt our in-progress activities and discussions. If you must miss a class session, you are still responsible for turning in assignments on time and getting lecture notes from a classmate. In this case, you can email your assignment as an attachment. Also let us know as soon as possible, so that you can make up the work that you miss.

Technology in the Classroom: Since technology is profoundly linked to education, there will be many times when we ask that you employ different tools in the gathering and expression of knowledge. Since, however, education is also more than technology, you may type notes in class, but no email, instant messaging, web surfing, games, texting, or other distractions. Turn off cell phones.

Incompletes: University rules state that "an incomplete is given only when the student has been in attendance and has done satisfactory work until within two weeks at the end of the quarter and has furnished proof satisfactory to the instructor that the work cannot be completed because of illness or other circumstances beyond the student's control." We *strongly* discourage incompletes.

Academic integrity: See http://www.uwb.edu/studentservices/academicconduct for crucial information regarding academic integrity. The library also has an extremely useful website with resources at http://libguides.uwb.edu/ai. You are responsible for knowing what constitutes a violation of the University of Washington Student Code, and you will be held responsible for any such violations whether they were intentional or not. Plagiarism is one of the most common violations of academic integrity, so please pay attention to both the web information and when we explain this in class.

Americans with Disabilities Act: If you believe that you have a disability and would like academic accommodations, please contact Disability Support Services at http://www.uwb.edu/studentservices/dss, 425.352.5307, 425.352.5303 TDD, 425.352.5455 FAX, or at dss@uwb.edu.

Inclement Weather: Please check if the campus may be closed due to weather. Information about suspension of operations will be made public and available through the media. You can learn of campus operations status from the website or by calling the Campus Information Hotline 425.352.3333. You may also sign up with an alert system that will contact you via email or text message if classes are canceled. For more information on the alert process, please see http://www.uwb.edu/alert. Class activities will be rescheduled as needed.

H1N1 and Other Communicable Diseases Action Steps: As part of the campus community's shared responsibility for minimizing the possible spread of H1N1 virus and other diseases this year, it is critical that all students are familiar with the symptoms of H1N1 Flu described on the UW Bothell website at http://www.uwb.edu/flu. Anyone with flu-like symptoms is encouraged to stay at home until at least 24 hours after they no longer have a fever without the use of fever-reducing medications. If you are sick and have an extended absence, please speak with us regarding alternative ways to maintain your progress in your courses. If either of us are sick and need to cancel class, we will send an email using the class list and post a message on the door of the classroom.

Student Support Services:

Library: http://library.uwb.edu/ 425-352-5340
Writing Center: www.uwb.edu/WritingCenter/ 425-352-5253
Quantitative Skills Center: http://www.uwb.edu/qsc 425-352-3170
Student Success and Career Services:
http://www.uwb.edu/studentservices/success-services 425-352-3776
Student Counseling Services:
http://www.uwb.edu/studentservices/counseling 425-352-3183

Required Texts, media, and e-reserves (http://library.uwb.edu/reserve.htm):

Some additional on-line reading (REQUIRED)

Lederman, Leon with Dick Teresi. The God Particle: If the Universe is the Answer, What is the Question? © 2006 [ISBN 978-0-618-71168-0] REQUIRED

Hawking, Steve. A Brief History of Time: From the Big Bang to Black Holes. © 1998 [ISBN 0-553-05340-X] REQUIRED

Diestler, Sherry. Becoming a Critical Thinker: A User Friendly Manual. 5th Edition © 2009 [ISBN 978-0-13-241313-8] REQUIRED

Diana Hacker. Rules for Writers. 6th Edition © 2008 [ISBN 978-0-312-59339-1] OPTIONAL

Grading 101 Composition

Writing Assignments (4) [15% each](4% Draft version, 11% Final version)	60%
In-Class Participation (discussions, quizzes, in-class writing, homework)	25%
Final Exam	15%
Note: Students may not request individual extra credit opportunities.	100%

Grading 110 Natural World

Workshop Projects (includes class participation, writeups, and worksheets)	70%
Citation/Annotation Project	20%
Summary Portfolio	10%
Note: Students may not request individual extra credit opportunities.	100%

For UWB grading policies and procedures, see http://depts.washington.edu/grading/

Daily Schedule (Subject to change)

T/Th	Reading Due	Assignments Due	In-Class Activities
Th 9/30			CUSP & Class Overview; Self-assessment
T10/5	C: Diestler: Ch 1		C: Discuss Ch1 & Assign #1, Est groups N: Galileo's Battle for the Heavens & Handout
Th 10/7	N: A Starry Messenger	A Starry Messenger directed reading (DR) worksheet	C: Decision making, Reasoning N: Battle for the Heavens Workshop
T 10/12		C: Draft Assignment #1	C: Student writing groups, Group feedback N: Intro to Newton & Graviation
Th 10/14	N: Hawking Ch 1	N: Battle for the Heavens writeup	N: Galileo and Gravity workshop
T 10/19	C: Diestler: Ch 3	C: FINAL Assignment #1	C: Discuss Assumptions & Assign #2; Quiz 1 N: Netwon's Laws of Motion
Th 10/21		N: Galileo and Gravity writeup N: Hawking Ch 1 DR worksheet	C: Discuss Assumptions N: Superball Workshop
T 10/26	C: Diestler: Ch 4	C: Draft Assignment #2	C: Group feedback; Revision exercises N: Electromagnetic Spectrum
Th 10/28	N: Hawking: Ch 2	N: Superball writeup N: Hawking Ch 2 DR worksheet	C: Discuss Inductive arguments N: Tinfoil Helmet Workshop
T 11/2		C: FINAL Assignment #2	C: Discuss Assignment #3; Quiz 2 N: Special Relativity (SR)
Th 11/4		N: Tinfoil Helmet Workshop N: Einstein SR DR worksheet	C: Discuss Inductive arguments N: Special Relativity
T 11/9	C: Diestler Ch 5		C: Group feedback; Revision exercises N: Twin Paradox Workshop
Th 11/11			**HOLIDAY**
T 11/16		C: Draft Assignment #3	C: Discuss Inductive Generalizations; Quiz 3 N: Citations/Anotations Project
Th 11/18	N: Lederman Ch 1-5	N: Twin Paradox Workshop	C: Discuss Inductive Reasoning N: The Failure of Classical Physics
T 11/23	C: Diestler Ch 6	C: FINAL Assignment #3	C: Discuss Inductive Reasoning N: The Story of Quantum Mechanics
Th 11/25			**THANKSGIVING**
T 11/30	N: Lederman Ch 6	C: Draft Assignment #4	C: Group feedback; Revision exercises; Quiz 5 N: Modern Physics
Th 12/2		C: bring to class all Draft & FINAL assignments with professor's comments N: Lederman DR Worksheet	C: Discuss Inductive Reasoning; Common Errors exercise N: Cosmology
T 12/7		C: FINAL Assignment #4	C: Discuss Reasoning Errors; Quiz 5 N: Summary Portfolio Checkup
Th 12/9		N: Citation/Annotations Project and Summary Portfolios Due	Course Evals C: Course Review N: Natural World Round-Up
T 12/14		(Optional) One 8 ½ X 11 paper with your study notes	C: FINAL; N: Return Summary Portfolios