<table>
<thead>
<tr>
<th>Week 1</th>
<th>Introduction to Course</th>
<th>Complete surveys of biology content and teaching skills, navigating the course website.</th>
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| Week 2 | Field Trip to natural area  
What is Inquiry? | Participate in open-ended inquiry activity. Discussion of scientific inquiry and the National Science Education Standards |
| Week 3 | Method: The Learning Cycle  
| Week 4 | Teaching Activity (introduction)  
Flow of matter and energy  
Interdependence of living things  
Principles of heredity  
Evolutionary theory  
Homeostasis/internal environment | Introduce a lesson (engage), followed by critiques and on-line discussion.  
-Explore Vernier probeware and computer graphical analyses. |
| Week 5 | Teaching Activity (introduction)  
Biochemistry of life processes  
Plant and animal adaptations  
Taxonomy  
Humans and the environment | Introduce a lesson (engage), followed by critiques and on-line discussion.  
-Explore digital microscopy and gel electrophoresis. |
| Week 6 | Field trip to conduct investigations in regional ecosystem natural area.  
OR  
Molecular biotechnology | -Generate hypotheses, use field equipment, and data analysis.-Field trip and Lab Safety Issues  
OR-Use electrophoresis to identify local organisms |
| Week 7 | Teacher Resource Day!  
Presentations by outreach educators | - Learn about the Idaho Museum of Natural History, Pocatello Zoo, Project Wet/Wild, ISU, etc.  
-What makes a good demonstration? |
| Week 8 | Teaching Activity: Field and Lab Demonstrations  
-all content areas | -Demonstrate a biological concept using technology or a model (explore and explain).  
-Integrate content with method. |
| Week 9 | Getting better at teaching.  
High School Teacher Panel:  
Teaching Controversial Issues | Discuss how to critique, evaluate, and assess your teaching. Learn how to find and adapt lesson plans, order materials and supplies. |
| Week 10 | Individual Teaching I  
Cell biochemistry  
Genetics and heredity | Teach a 50 minute inquiry-based lesson, using the Learning Cycle (5 E) method. |
| Week 11 | Individual Teaching II  
Biological Evolution  
Taxonomy | All lessons include a data collection and analysis component, and an assessment. |
| Week 12 | Individual Teaching III  
Interdependence of living things  
Flow of matter and energy | Lessons are videotaped for review and self-assessment. |
| Week 13 | Individual Teaching IV  
Animal and plant behavior  
Homeostasis | In-class and on-line discussion and critiques provide feedback to students. |
| Week 14 | -Teaching Lab Practical Exam  
-Student Teacher Panel | -Take an examination that measures your lab, teaching, and professional development skills.  
-Learn as Student Teachers share experiences. |
| Week 15 | Portfolio Reviews: Exit Interviews | Re-take content and teaching skills surveys |