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| **Date** | **Topics (subject to revision)** | Reading | Assignment Due |
| **ECOLOGY** |  |  |  |
| **Week 1:** Jan 8, 10 | T: Introduction to Ecology  R: Introduction to Ecology | T/R: Chapter 1; pp. 4  Chapter 52; pp. 1148-1159; 1166-1171 | T: Student info. sheet (in-class assignment); Studingo  R: Nature Trail worksheet (OUTSIDE) |
| **Week 2:** Jan 15, 17 | T: Scientific Method  R: Community Ecology | T: Chapter 1; pp. 18-24  R: Chapter 54; pp. 1198-1210 | T: Begin gall study (OUTSIDE)  R: Continue gall study /Data entry/analysis (class split) (OUTSIDE/COMPUTER LAB) |
| **Week 3:** Jan 22, 24 | T: Disturbance/Succession    R: Restoration Ecology | T: Chapter 54; pp.1211-1214  R: Chapter 56; pp. 1260-1263 | T: Continue gall study/data entry/analysis (class split) (OUTSIDE/COMPUTER LAB)  R: Succession Game |
| **Week 4:** Jan 29, 31 | T: Dendrochronology  R: Winter Ecology | T/R: No reading assignment | T: Fire Scar Dating Exercise; **Scientific report on galls due**  R: winter ecology worksheet/OUTSIDE |

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| **CELL BIOLOGY** |  |  |  |
| **Week 5:** Feb 5, 7 | **T: Exam 1**  R: Cell Cycle, Mitosis | T: No reading assignment  R: Chapter 12; pp. 228-237 |  |
| **Week 6:** Feb 12, 14 | T/R: Mitosis, Meiosis and Life Cycles | T/R: Chapter 13 entire chapter | T: computer lab mitosis assignment due (complete in class)  R: computer lab meiosis assignment due (complete in class) |
| **Week 7:** Feb 19, 21 | T: Meiosis  **R: Exam 2** | T: Chapter 15; pp. 289-290; 297-300 |  |
| **EVOLUTION & GENETICS** |  |  |  |
| **Week 8:**  Feb 26, 28 | T: What Darwin Never Knew Video  R: History of Evolutionary Thought/Natural Selection | T/R: Chapter 1; pp. 12-17; Chapter 22 entire chapter | T: Darwin Video-Worksheet  R: Speciation Game |
| **Week 9: March 4-8th** | SPRING BREAK |  |  |
| **Week 10:** Mar 12,14 | T/R: Natural Selection/Speciation  R: Plant/Pollinator Adaptations | T: Chapter 23; pp. 468-471; 475-484; Chapter 24; 487-498  R: Plant/Pollinator Activity | T: Bottleneck Activity/Darwin Discussion with Current Science Literature  R: Pollination Activity |
| **Week 11:** Mar 19, 21 | T/R: Mendelian Genetics | T/R: Chapter 14 entire chapter | T/R: Genetic worksheets |
| **Week 12:** Mar 26, 28 | T: Mendelian/Population Genetics/Future of Food Video  R: Trip to the Genetic Counselor Case Study | T: Chapter 15; pp. 286-287; 294  R: Read Case Study Introduction | T: Genetic worksheets/video worksheet  R: Trip to the Genetic Counselor Worksheet |
| **Week 13:** Apr 2 | **T: Exam 3** |  |  |
| **CONSERVATION/BIODIVERSITY** |  |  |  |
| **Week 13:** Apr 4 | **R:** Salmon: Running the Gauntlet Video | R : Salmon, Bears, Nutrient Ecoystem Article | R : Video Worksheet/Paper Discussion |
| **Week 14:** Apr 9, 11 | T: Human Population Ecology/Ecological Footprint  R: Conservation Biology/  Division Street Video | T : Chapter 53; 1181-1195;  R: Chapter 56; pp. 1245-1260; 1264-1265 | T : Human Population Worksheet/  Ecological Footprint Activity (Computer Lab)  R: Video Worksheet |
| **Week 15:** Apr 16, 18 | T: Conservation Biology  R: Ecosystem Ecology/Ecosystem Services Public Health | R: Climate Change/Ecosystem Disruption article | T: Conservation Biology In-Class Exercise  R: Article Discussion |
| **Final Exam: Monday April 22nd noon** |  |  | In-class final exam |