

TIEE teaching module: Using Large Data Sets to Test New Hypotheses

The Invasive Grass-Fire Cycle in the U.S. Great Basin

Full-day, 7-hour Module:

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| 9:00 – 9:30 AM | Lecture 1: Intro to Fire Ecology & Invasive Plant Species
(end with Think-Pair-Share exercise) |
| 9:30 – 10:30 AM | Lab Exercise PART I: Whisenant 1990 dataset |
| 10:30 – 10:45 AM | Break |
| 10:45 – 11:15 AM | Review Exercise |
| 11:15 - 12:00 PM | Lecture 2: Satellite fire data |
| 12:00 – 1:00 PM | Lunch |
| 1:00 – 3:30 PM | Lab Exercise PART II: Fire and Cheatgrass in the U.S. Great Basin |
| 3:30 – 4:00 PM | Reflections & Evaluations
(end with 1 minute essay, and give optional Take-home essay) |

OR Split module into lecture/lab combination:

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| 1 hour | Lecture 1: Intro to Fire Ecology & Invasive Plant Species
(end with Think-Pair-Share exercise) |
| 2-3 hours | Lab Exercise PART I: Whisenant 1990 dataset |
| 1 hour | Lecture 2: Satellite fire data (& review Lab Exercise PART I) |
| 2-3 hours | Lab Exercise PART II: Fire and Cheatgrass in the U.S. Great Basin |
| ½ hour | Reflections & Evaluations
(end with 1 minute essay, and give optional Take-home essay) |

Option Advanced GIS lab

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| 2-3 hours | Advanced GIS Lab Exercise: Fire across vegetation types in the U.S. Great Basin |
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